



Temperature and pressure



Gesa

Gesa Termómetros, S.L.

Our company is now serving 50 years of presence in the European market

Since our very beginning we devoted ourselves to the manufacture and commercialisation of precision instruments. We fabricate a wide range of standard instruments as well as under specification, but always according to standards such as DIN, ASTM, BS...

In the course of this time we have gained great experience on our customer's necessities both general and specific. Our products are effectively used in many areas comprehending:

- Shipyards and fishing industry
- Heating and refrigeration
- Chemical and petrochemical facilities
- Food and catering
- Irrigation and drainage

In this new version of our website will appreciate a more effective presentation of all our activities as well as easier to compose budgets queries or requests.

We manage more than 10,000 different references, many of which are in stock, so the usual delivery time is two or three days. For other fabrications and depending on the amount, the average time is usually about two weeks.

Our customer support includes technical advice necessary for the correct choice of instrument best suited to their needs.

We have the necessary metrology equipment for the issuance of certificates of calibration of all our instruments, both in temperature and pressure. All internal standards used in the manufacture and issuance of certificates of calibration are traceable to ENAC (National Accreditation).



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PRESIÓN

PRESSION

PRESSURE

Manómetros
Manomètres
Pressure gauges

Válvulas
Robinets
Valves

TEMPERATURA

TEMPÉRATURE

TEMPERATURE

Termómetros de vidrio
Thermomètres en verre
Glass thermometers

Termómetros de dial
Thermomètres à Cadran
Dial thermometers

Termómetros analógicos para diversos usos
Thermomètres analogiques pour différentes applications
Analog thermometers for multiple purposes

Registradores de datos / Dataloggers
Enregistreurs de données
Dataloggers

Temperatura y humedad / Termohigrómetros
Température et humidité / Thermo-Hygromètres
Temperature and Humidity / Therma- Hygrometer

Termómetros infrarrojos
Thermomètres Infrarouges
Infrared Thermometers

Termómetros digitales
Thermomètres numériques
Digital thermometers

MEDIDORES

DIGITALES

COMPTEURS

DIGITAUX

DIGITAL

INSTRUMENTS

PRESIÓN
PRESSION
PRESSURE

Manómetros
Manomètres
Pressure Gauges

1


Application:

- Compressed air
- Compressor
- Air conditioning
- Hydraulics
- Pneumatic

Pressure gauge with plastic case

Designed to monitor pressure in systems not subjected to vibrations. Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for pneumatic circuits, filters, pressure regulators...

Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Adjusted display

Mounting: See attached diagram A or B

Threaded connection: Ø40: 1/8" BSPT; Ø50-Ø63: 1/4" BSPT (UNE-EN 10226-1)

IP protection: IP44 (EN 60529 / IEC 529)

Accuracy: Class 2.5

Pressure limits:

Static: 3/4 end of scale

Oscillating: 3/4 end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+60°C

Fluid: 60°C

Pressure range: -1...0...25 Bar

Scale: Bar/Psi

Subdivision: According to standard EN 837-1

Sensor: Bourdon tube ("C" form)

Position pointer: Red pointer (only for ranges 0+4/0+6/0+12)

MATERIALS

Case: Polyethylene

Bourdon tube and moving parts: Copper alloy

Threaded connection: Brass

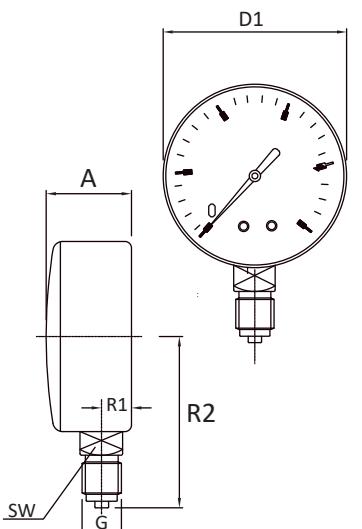
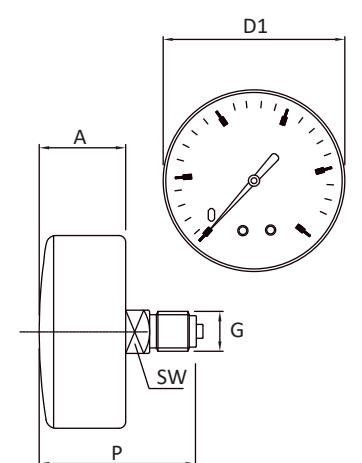
Display: Acrylic

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: Cu-Sn

Red pointer: Red Plastic

A Bottom

B Back


DIMENSIONS (mm)								WEIGHT (g)	
DN	Mounting	R1	A	D1	G	R2	SW	P	
Ø40	A	8	25	40	1/8" BSPT	37	11	-	40
Ø40	B	-	25	40	1/8" BSPT	-	11	39	45
Ø50	A	8	27	53	1/4" BSPT	37	11	-	57
Ø50	B	-	27	53	1/4" BSPT	-	11	47	73
Ø63	A	8	27	63	1/4" BSPT	37	11	-	65
Ø63	B	-	27	63	1/4" BSPT	-	11	47	79

How to order
1. Case diameter

Ø40 Ø50 Ø63


2. Pressure range (Bar)

-1+0 0+1.6	0+2.5 0+4	0+6 0+10	0+12 0+16	0+25
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3. Pressure Unit

Bar/Psi


4. Mounting

A B


5. Threaded connection

1/4"BSPT 1/8"BSPT


6. Connection material
7. Calibration certificate traceable to ENAC

7 points certificate
Without certificate



M0101 -

1	2	3	4	5	6	7
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Pressure gauge with case in carbon steel

Designed to monitor pressure in systems not subjected to vibrations. Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especifically designed for pneumatic and hydraulic circuits.

Manufactured according to EN 837-1 standards.



STANDARD PARAMETERS

Design: EN 837-1

Closing: Adjusted

Mounting: See attached diagram A or B

Threaded connection: Ø63: ¼" BSP; Ø75: ¾" BSP; Ø100: ½" BSP (UNE-EN 10226-1)

IP protection: IP54 (EN 60529 / IEC 529)

Accuracy: Ø63-Ø75: Class 2.5 / Ø100: Class 1.6

Pressure limits:

Static: ¾ end of scale

Oscillating: ⅔ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: -1...0...1000 Bar

Scale: Bar/Psi

Subdivision: According to standard EN 837-1

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

MATERIALS

Case: Carbon steel painted in black

Bourdon tube and moving parts: Copper Alloy

Threaded connection: Brass

Display: Glass

Dial: White laquered aluminum

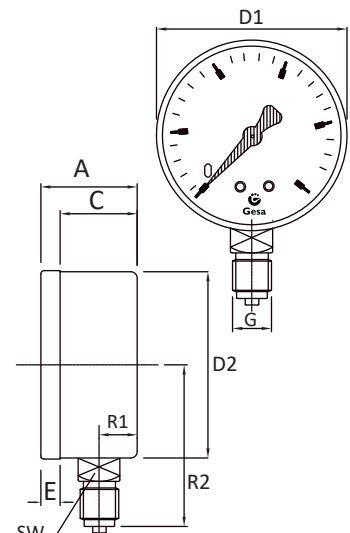
Pointer: Black laquered aluminum

Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag

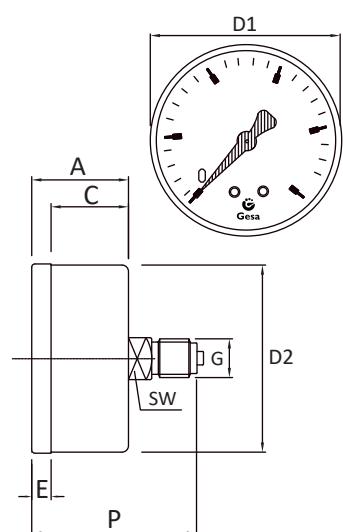
Application:

- Compressed air
- Compressor
- Air conditioning
- Hydraulics
- Pneumatics

A Bottom



B Back



How to order

1. Case diameter

Ø63	A	10	28	17	40	10	62	¼" BSP	51	14	-	110
Ø63	B	-	28	17	40	10	62	¼" BSP	-	14	46	122
Ø75	A	10	30	19	53	11	74	¾" BSP	60	17	-	165
Ø75	B	-	30	19	53	11	74	¾" BSP	-	17	55	170
Ø100	A	16	45	23	63	22	98	½" BSP	83	17	-	383
Ø100	B	-	45	23	63	22	98	½" BSP	-	17	75	405

2. Pressure range (Bar)

-1+0	-1+1.5	-1+5	-1+12	-1+24	0+1	0+2.5	0+6	0+16	0+40	0+100	0+250	0+400	0+1000
-1+0.5	-1+3	-1+9	-1+15	0+0.6	0+1.6	0+4	0+10	0+25	0+60	0+160	0+315	0+600	

3. Pressure scale

Bar/Psi

3. Pressure scale	4. Mounting	5. Threaded connection	6. Connection material
	A B	¼" BSP ¼" BSPT	Brass

7. Calibration certificate traceable to ENAC

- 7 points certificate
- Without certificate

M0201 -

1	2	3	4	5	6	7
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Pressure gauge in stainless steel with sealed ring

M 03 01



Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

Especially designed for difficult operating conditions like vibrations or rapid pressure changes. Suitable for use in systems with low viscosity that do not attack copper alloys such as cooling systems.

Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Sealed ring

Mounting: See attached diagram A, B, C or D

Threaded connection: Ø63: ¼" BSP; Ø80: ¾" BSP; Ø100: ½" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: ¼ end of scale

Oscillating: ½ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -20+50°C

Fluid: Brass connection: 80°C / Steel connection: 100°C

Range: -1...0...1000 Bar

Scale: Bar/Psi, Bar or cmHg

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8%

Sensor: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: Copper Alloy or AISI 316 Stainless steel

Threaded connection: Brass or AISI 316 Stainless steel

Display: Polycarbonate

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag / TIG Welding

Overtemperature relief plug: Neoprene

DN	Mounting	DIMENSIONS (mm)										WEIGHT (g)			
		R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø63	A/C	10	29	23	68	6	61	¼" BSP	56	14	-	86	80	3,5	188
Ø63	B/D	-	29	23	68	7	61	¼" BSP	-	14	58	86	80	3,5	184
Ø80	A/C	10	30	22	88	8	80	¾" BSP	60	17	-	112	104	5	335
Ø80	B/D	-	30	22	88	8	80	¾" BSP	-	17	61	112	104	5	299
Ø100	A/C	16	37	29	109	8	99	½" BSP	83	21	-	132	124	5	550
Ø100	B/D	-	37	29	109	8	99	½" BSP	-	21	77	132	124	5	547

How to order

1. Case diameter

Ø63 Ø80 Ø100

-1+0 -1+1.5 -1+5 -1+12 -1+24 0+1 0+2.5 0+6 0+16 0+40 0+100 0+250 0+400 0+1000
 -1+0.5 -1+3 -1+9 -1+15 0+0.6 0+1.6 0+4 0+10 0+25 0+60 0+160 0+315 0+600 -76+0

3. Pressure scale

Bar Bar/Psi cmHg

4. Mounting

A B C D



¼" BSP
¼" BSPT
¼" SAE

5. Threaded connection

½" BSP
½" BSPT
¾" BSPT
7/16" SAE

6. Connection material

Brass
AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%

8. Calibration certificate traceable to ENAC

7 Points Certificate
Without certificate

M0301 -

1 2 3 4 5 6 7 8



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Pressure gauge in stainless steel with bayonet closing

Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for difficult conditions of use, as there are vibrations or quick changes of pressure. Manufactured according to standard EN 837-1

STANDARD PARAMETERS

Design: EN 837-1

Closing: Bayonet

Mounting: See attached diagram A, B, C or D

Threaded connection: Ø63: ¼" BSP; Ø100-Ø150: ½" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Ø63: Class 1.6; Ø100-Ø150: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: 1.3 end of scale for a short period of time

Temperature limits:

Environment: -20+50°C (Glycerine) / -20+80°C (dry)

Fluid: Brass connection: 80°C / Steel connection: 100°C (Glycerine), 200°C (dry)

Range: -1...0...1000 Bar

Scale: Bar/Psi, Bar or cmHg

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8% or dry

Pointer: Micrometric adjustment

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: Copper Alloy or AISI 316 Stainless steel

Threaded connection: Brass or AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

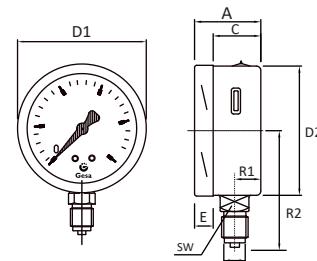
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag / TIG Welding

Blow-out disc and overtemperature relief plug: Neoprene

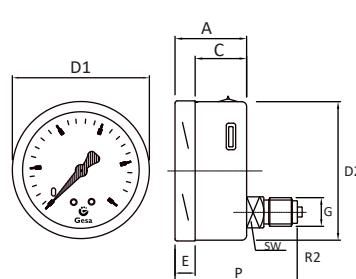
Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

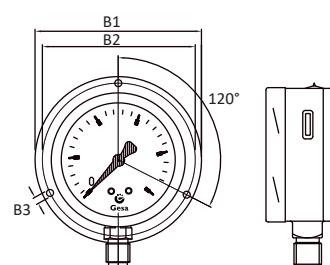
A Bottom



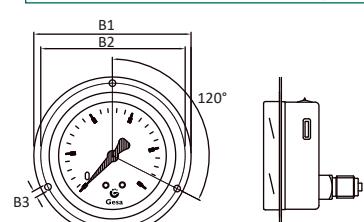
B Back



C Bottom with back flange



D Back with frontal flange



How to order

1. Case diameter

Ø63	A/C	10	34	22	64	12	62	¼" BSP	55	14	-	86	80	3,5	158	230
Ø63	B/D	-	34	22	64	12	62	¼" BSP	-	14	56	86	80	3,5	157	228

3. Pressure scale

Bar	Bar/Psi	cmHg	A	B	C	D	¼" BSP	½" BSP	¾" BSP	120°			
-1+0	-1+1.5	-1+5	-1+12	-1+24	0+1	0+2.5	0+6	0+16	0+40	0+100	0+250	0+400	0+1000
-1+0.5	-1+3	-1+9	-1+15	0+0.6	0+1.6	0+4	0+10	0+25	0+60	0+160	0+315	0+600	-76+0

7. Antivibration fluid

Glycerine 99.8%
Without fluid

2. Pressure range (Bar)

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

M0304 -

M4

1 2 3 4 5 6 7 8

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STANDARD PARAMETERS

Design: EN 837-1

Closing: Sealed ring

Mounting: See attached diagram A, B, C or D

Threaded connection: Ø63: ¼" BSP; Ø80: ¾" BSP; Ø100: ½" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: ¼ end of scale

Oscillating: ½ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -20+50°C

Fluid: 100°C

Range: -1...0...1000 Bar

Scale: Bar/Psi, Bar or cmHg

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8%

Sensor: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Polycarbonate

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: TIG Welding

Overtemperature relief plug: Neoprene

Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø63	A/C	10	29	23	68	6	61	¼" BSP	56	14	-	86	80	3,5	188
Ø63	B/D	-	29	23	68	7	61	¼" BSP	-	14	58	86	80	3,5	184
Ø80	A/C	10	30	22	88	8	80	¾" BSP	60	17	-	112	104	5	335
Ø80	B/D	-	30	22	88	8	80	¾" BSP	-	17	61	112	104	5	299
Ø100	A/C	16	37	29	109	8	99	½" BSP	83	21	-	132	124	5	550
Ø100	B/D	-	37	29	109	8	99	½" BSP	-	21	77	132	124	5	547

How to order

1. Case diameter

Ø63 Ø80 Ø100

-1+0 -1+1.5 -1+5 -1+12 -1+24 0+1 0+2.5 0+6 0+16 0+40 0+100 0+250 0+400 0+1000
 -1+0.5 -1+3 -1+9 -1+15 0+0.6 0+1.6 0+4 0+10 0+25 0+60 0+160 0+315 0+600 -76+0

3. Pressure scale

Bar Bar/Psi cmHg

4. Mounting

A B C D

5. Threaded connection

¼" BSP
¼" BSPT
¼" SAE
½" BSP
½" BSPT
¾" BSPT
7/16" SAE

6. Connection material

AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%

8. Calibration certificate traceable to ENAC

7 Points Certificat
Without certificat

M0305 -

1 2 3 4 5 6 7 8

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Pressure gauge in stainless steel with bayonet closing

Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for difficult conditions of use, as there are vibrations or quick changes of pressure. Manufactured according to standard EN 837-1

STANDARD PARAMETERS

Design: EN 837-1

Closing: Bayonet

Mounting See attached diagram A, B, C or D

Threaded connection Ø63: 1/4" BSP; Ø100-Ø150: 1/2" BSP (UNE-EN 10226-1)

IP protection IP65 (EN 60529 / IEC 529)

Accuracy: Ø63: Class 1.6; Ø100-Ø150: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: 1.3 end of scale for a short period of time

Temperature limits:

Environment: -20+50°C (Glycerine) / -20+80°C (dry)

Fluid: 100°C (Glycerine), 200°C (dry)

Range: -1...0...1000 Bar

Scale: Bar/Psi, Bar or cmHg

Subdivision: According to standard EN 837-1

Antivibration fluid Glycerine 99.8% or dry

Pointer: Micrometric adjustment

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

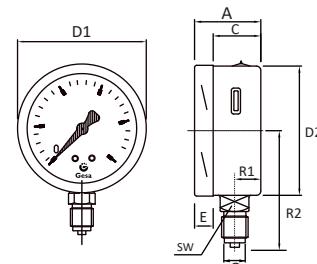
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag / TIG Welding

Blow-out disc and overtemperature relief plug: Neoprene

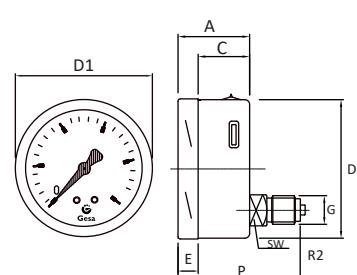
Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

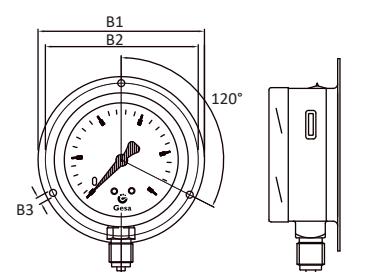
A Bottom



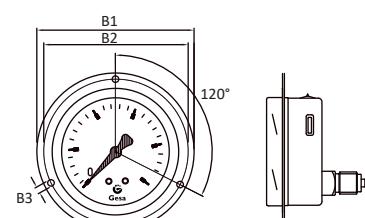
B Back



C Bottom with back flange



D Back with frontal flange



How to order

1. Case diameter

Ø63	A/C	10	34	22	64	12	62	1/4" BSP	55	14	-	86	80	3,5	158	230
Ø63	B/D	-	34	22	64	12	62	1/4" BSP	-	14	56	86	80	3,5	157	228
Ø100	A/C	16	49	32	101	17	99	1/2" BSP	83	22	-	132	124	5	533	867
Ø100	B/D	-	49	32	101	17	99	1/2" BSP	-	22	86	132	124	5	550	890
Ø150	A/C	16	50	32	149	18	146	1/2" BSP	113	22	-	192	184	5	950	1712
Ø150	B/D	-	50	32	149	18	146	1/2" BSP	-	22	87	192	184	5	824	1750

2. Pressure range (Bar)

-1+0	-1+1.5	-1+5	-1+12	-1+24	0+1	0+2.5	0+6	0+16	0+40	0+100	0+250	0+400	0+1000	-76+0
-1+0.5	-1+3	-1+9	-1+15	0+0.6	0+1.6	0+4	0+10	0+25	0+60	0+160	0+315	0+600	-76+0	

3. Pressure scale

Bar	Bar/Psi	cmHg	A	B	C	D	1/4" BSP	1/2" BSP	3/8" BSP
							1/4" SAE	1/2" BSPT	3/8" BSPT

4. Mounting

A	B	C	D	1/4" BSP	1/2" BSP	3/8" BSP
				1/4" SAE	7/16" SAE	M20x150

5. Threaded connection

1/4" BSP	1/2" BSP	3/8" BSP
1/4" SAE	7/16" SAE	M20x150

6. Connection material

AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%
Without fluid

8. Calibration certificate traceable to ENAC

7 Points Certificate
Without certificate

M0306 -

1	2	3	4	5	6	7	8
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Application:

- Gas facilities
- Low pressure

Capsule pressure gauge with black steel case

Capsule pressure gauges with elastic element and moving parts in copper alloy manufactured according to EN 837-3 standards.

Especially suitable for gaseous media not subjected to vibrations with a maximum temperature not higher than 100°C.

STANDARD PARAMETERS

Design: EN 837-3

Closing: Bayonet

Mounting: See attached diagram A

Threaded connection: Ø63: ¼" BSP; Ø100: ½" BSP (UNE-EN 10226-1)

IP protection: IP43 (EN 60529 / IEC 529)

Accuracy: Ø63: Class 1.6 / Ø100: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: 0...600 mbar

Scale: mbar

Subdivision: According to standard EN 837-3

Sensor element: Capsule

Pointer: Micrometric adjustment

MATERIALS

Case: Carbon steel painted in black

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

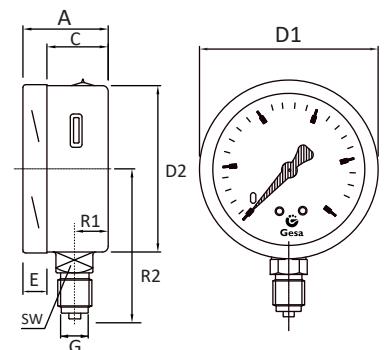
Display: Ø63: Acrylic (Adjusted closing) / Ø100: Glass (Bayonet closing)

Dial: White laquered aluminum

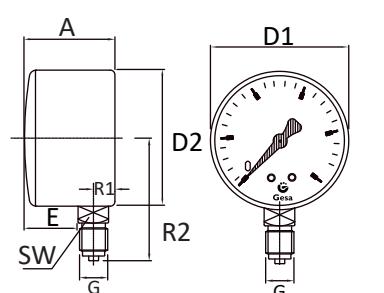
Pointer: Black laquered aluminum

Welding: Cu-Sn

A Bottom Ø100



A Bottom Ø63



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	11	38	-	66	22	66	¼" BSP	57	14	214
Ø100	A	16	49	32	101	17	99	½" BSP	83	22	559

How to order

1. Case diameter

Ø63 Ø100



2. Pressure range (Bar)

0+25	0+60	0+160	0+400
0+40	0+100	0+250	0+600

3. Pressure scale

mbar



4. Mounting

A



5. Threaded connection

¼" BSP ½" BSP



6. Connection material

Brass



7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0401 -

1	2	3	4	5	6	7
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Capsule pressure gauge with zincked steel case



STANDARD PARAMETERS

Design: EN 837-3

Closing: Ring screwed to case

Mounting: See attached diagram A

Threaded connection: Ø63: ¼"BSP; Ø100: ½"BSP (UNE-EN 10226-1)

IP protection: IP44 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: 0...2000 mbar

Scale: mbar

Subdivision: According to standard EN 837-3

Sensor element: Capsule

Application:

- Gas facilities
- Low pressure

MATERIALS

Case: Zincked carbon steel with screwed closing

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

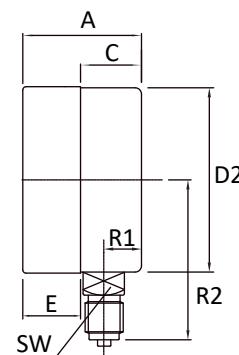
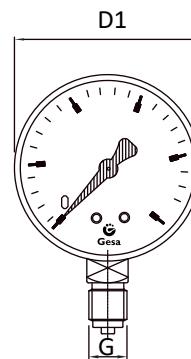
Display: Glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: Cu-Sn

A Bottom



DIMENSIONS (mm)										WEIGHT (g)	
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	12	38	16	64	22	62	¼ BSP	59	11	198
Ø100	A	15	64	26	107	38	105	½" BSP	90	22	738

How to order

1. Case diameter

Ø63 Ø100

0+25
0+40

2. Pressure range (Bar)

0+60
0+100
0+160
0+250
0+400
0+600
0+1000
0+2000

3. Pressure scale

mbar

4. Mounting



A



5. Threaded connection

¼"BSP ½"BSP



Brass

7 point certificate
Without certificate

6. Connection material

7. Calibration certificate traceable to ENAC

M0402 -

1	2	3	4	5	6	7
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M8



Capsule pressure gauge with stainless steel case



Capsule pressure gauges with elastic element and moving parts in copper alloy manufactured according to EN 837-3 standards.

Especially suitable for gaseous media not subjected to vibrations with a maximum temperature not higher than 100°C.

STANDARD PARAMETERS

Design: EN 837-3

Closing: Bayonet

Mounting: See attached diagram A

Threaded connection: Ø63: 1/4"BSP; Ø100: 1/2"BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Ø63: Class 1.6 / Ø100: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: 0...600 mbar

Scale: mbar

Subdivision: According to standard EN 837-3

Sensor element: Capsule

Pointer: Micrometric adjustment

Application:

- Gas facilities
- Low pressure

MATERIALS

Case: AISI 304 Stainless steel with bayonet closing

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

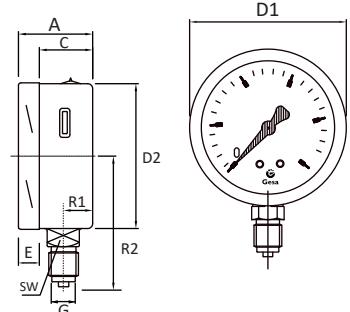
Display: Safety glass

Dial: White lacquered aluminum

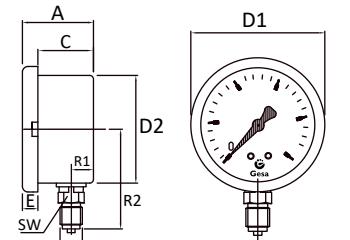
Pointer: Black lacquered aluminum

Welding: Cu-Sn

A Bottom Ø100



A Bottom Ø63



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	10	37	27	74	10	66	1/4" BSP	55	14	199
Ø100	A	16	49	32	101	17	99	1/2" BSP	83	22	545

How to order

1. Case diameter

Ø63 Ø100



2. Pressure range (Bar)

0+25	0+60	0+160	0+400
0+40	0+100	0+250	0+600

3. Pressure scale

mbar



4. Mounting

A



5. Threaded connection

1/4"BSP 1/2"BSP



6. Connection material

Brass



7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0403 -

1

2

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5

6

7



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Pressure gauge for refrigeration systems with case in stainless steel

Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for difficult conditions of use, as there are vibrations or quick changes of pressure.

Also useful for adverse ambients. Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Sealed ring

Mounting: See attached diagrams A, B, C or D

Threaded connection: Ø63: 1/4" BSP; Ø100: 1/2" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: 1% end of scale

Oscillating: 1% end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -20+50°C

Fluid: 80°C

Range: -1+12 or -1+24 Bar

Scale: Bar/R22/R134a/R404a/R507

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8%

Sensor element: Bourdon tube ("C" form)

Overtemperature relief system: Upper plug

Application:

- Refrigeration
- Air conditioning
- Food industry

MATERIALS

Case and ring: AISI 304 Stainless steel

Bourdon tube and moving parts: Cu Alloy

Threaded connection: Brass

Visor: Polycarbonate

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: Cu-Sn

Overtemperature relief plug: Neoprene

DN	Mounting	DIMENSIONS (mm)										WEIGHT (g)			
		R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø63	A/C	10	29	23	68	6	61	1/4" BSP	56	14	-	86	80	3,5	180
Ø63	B/D	-	29	23	68	6	61	1/4" BSP	56	14	58	86	80	3,5	180
Ø100	A/C	12	37	29	109	8	99	1/2" BSP	87	21	-	132	124	5	607
Ø100	B/D	-	37	29	109	8	99	1/2" BSP	87	21	77	132	124	5	607

How to order

1. Case diameter

Ø63 Ø100

2. Pressure range (Bar)

-1+12 -1+24

3. Pressure scale

Bar/R22/R134a/R404a/R507

4. Mounting

A B C D

5. Threaded connection

1/4" BSP 1/4" SAE 1/2" BSP

6. Connection material

Brass

7. Antivibration fluid

Glycerine 99.8%

8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0501 -

1	2	3	4	5	6	7	8
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Designed for refrigeration systems. Suitable for all liquid media that will not attack copper alloy parts.

Useful for systems where the gauge is not subjected to vibrations.

Manufactured according to EN 837-1 standards.



STANDARD PARAMETERS

Design: EN 837-1

Casing: Threaded Display

Mounting: Direct: free standing on the bottom connection

Threaded connection: Ø63: 7/16"SAE; Ø100: 1/2"BSP (UNE-EN 10226-1)

IP protection: IP43 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: ¼ end of scale

Oscillating: ½ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: -1+12 or -1+24 Bar

Scale: Bar/R22/R404a/R507

Subdivision: According to standard EN 837-1

Sensor element: Bourdon tube ("C" form)



Application:

- Refrigeration
- Air conditioning
- Food industry

MATERIALS

Case: Carbon steel blue (-1+12 bar) or red (-1+24 bar)

Bourdon tube and moving parts: Cu Alloy

Threaded connection: Brass

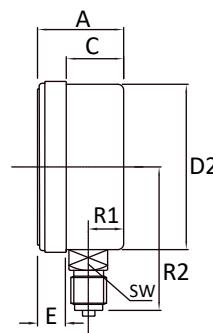
Display and ring: Acrylic. Display and ring are a single piece threadable to the case

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: Cu-Sn

A Bottom

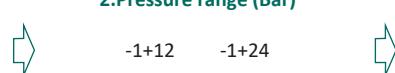


DIMENSIONS (mm)										WEIGHT (g)	
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	11	30	19	72	11	68	½ BSPT	55	14	121
Ø100	A	11	37	25	103	12	99	¾ BSPT	80	14	241

How to order

1. Case diameter

Ø63 Ø100



2. Pressure range (Bar)

-1+12 -1+24



3. Pressure scale

Bar/R22/R404a/R507



4. Mounting

A B



5. Threaded connection

1/2"BSP 7/16"SAE



6. Connection material

Brass



7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0502 -

1	2	3	4	5	6	7
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All stainless steel pressure gauge for refrigeration systems



Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for heavy duty conditions like vibrations or quick pressure changes. Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Bayonet

Mounting: See attached diagrams A or B

Threaded connection: $\frac{1}{2}$ "BSP or $\frac{1}{4}$ "SAE (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.0

Pressure limits:

Static: % end of scale

Oscillating: % end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: -1+12 or -1+24 Bar

Scale: Bar/R22/R134a/R404a/R507

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8% or dry

Sensor element: Bourdon tube ("C" form)

Overtemperature relief system: Upper plug

MATERIALS

Application:

- Refrigeration
- Air conditioning
- Food industry

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

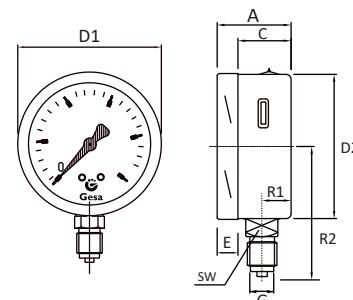
Dial: White laquered aluminum

Pointer: Black laquered aluminum

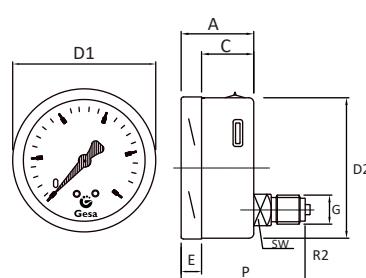
Welding: TIG welding

Overtemperature relief plug: Neoprene

A Bottom



B Back



DIMENSIONS (mm)										WEIGHT (g)	
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø100	A	16	49	32	101	17	99	$\frac{1}{2}$ " BSP	83	22	575
Ø100	B	-	49	32	101	17	99	$\frac{1}{4}$ " BSP	83	22	536

How to order

1. Case diameter

Ø100



2. Pressure range (Bar)

-1+12 -1+24



3. Pressure scale

Bar/R22/R134a/R404a/R507



4. Mounting

A B C D



5. Threaded connection

$\frac{1}{2}$ "BSP $\frac{1}{4}$ "SAE



6. Connection material

Brass
AISI 316 Stainless steel



7. Antivibration fluid

Glycerine 99.8%
Dry



8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0503 -

1	2	3	4	5	6	7	8
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STANDARD PARAMETERS

Design: UNE-EN 562
Closing: Threaded display
Mounting: See attached diagrams A or B
Threaded connection: Ø50: ¼" BSP ; Ø63: ¼" BSP (UNE-EN 562)

IP protection: IP44 (EN 60529 / IEC 529)
Accuracy: Class 2.5

Pressure limits:
Static: ¼ end of scale
Oscillating: ½ end of scale
Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+60°C

Fluid: 60°C

Range: 0+2.5; 0+16; 0+40; 0+315 Bar

Scale: Bar

Subdivision: According to standard UNE-EN 562

Sensor element: Bourdon tube(<60 Bar: Type "C"; >60 Bar: helical)

Application:

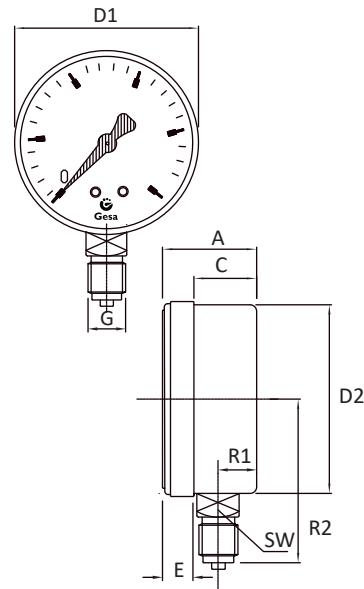
- Welding
- Oxygen
- Acetylene

MATERIALS

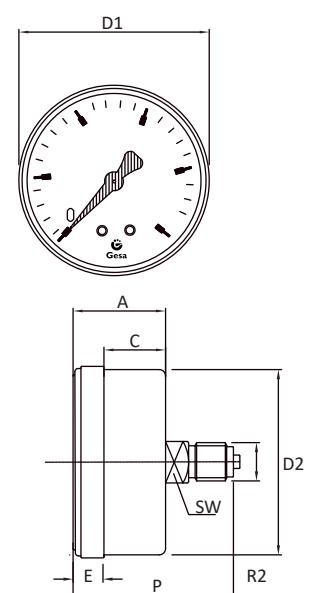
Case: Black lacquered steel
Bourdon tube and moving parts: Copper Alloy
Threaded connection: Brass
Display and ring: Acrylic. Display and ring are a single piece threadable to the case
Dial: White lacquered aluminum
Pointer: Black lacquered aluminum
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag

DIMENSIONS (mm)												WEIGHT (g)	
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P		
Ø50	A	10	28	17	57	12	52	¼ BSP	46	14	-	93	
Ø50	B	-	28	17	66	12	52	¼ BSP	-	14	46	98	
Ø63	A	10	29	17	57	12	61	¼ BSP	53	14	-	118	
Ø63	B	-	29	17	66	12	61	¼ BSP	-	14	46	125	

A Bottom



B Back



How to order

1. Case diameter

Ø50 Ø63

2. Pressure range (Bar)

0+2.5
0+16
0+40
0+315

3. Pressure scale

Bar

4. Mounting

A

B

5. Threaded connection

¼" BSP

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0601 -

1

2

3

4

5

6

7



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M13



Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts. Useful for system that are not submitted to strong vibrations.

Especially designed for pneumatics and hydraulics.

Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Pressure adjusted

Mounting: See attached diagrams A or B

Threaded connection: 1/4"BSP (UNE-EN 10226-1)

IP protection: IP44 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: % end of scale

Oscillating: % end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+65°C

Fluid: 60°C

Range: -1+15 or -1+25 Bar

Scale: Bar/°C for refrigerant R717 (NH₃)

Subdivision: According to standard EN 837-1

Sensor element: Bourdon tube ("C" form)

MATERIALS

Case: Black lacquered steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Acrylic

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

Welding: TIG welding

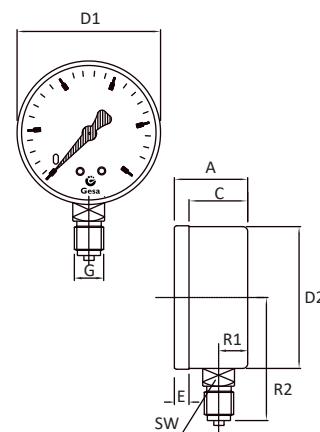
Application:

- Refrigeration
- Air conditioning
- Food industry

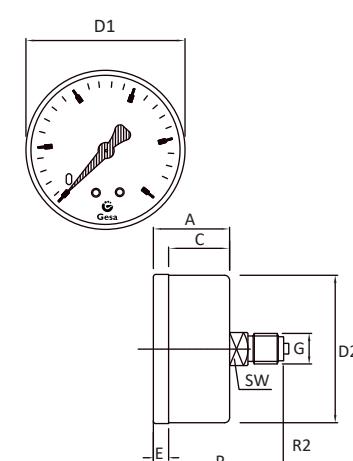
DIMENSIONS (mm) WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	WEIGHT (g)
Ø63	A	11	28	18	63	10	62	1/4" BSP	52	14	-	122
Ø63	B	-	28	18	63	10	62	1/4" BSP	-	14	46	128

A Bottom



B Back



How to order

1. Case diameter

Ø63



2. Pressure range (Bar)

-1+15 -1+25



3. Pressure scale

Bar / °C R717 NH₃



4. Mounting

A

B



5. Threaded connection

1/4" BSP



6. Connection material

AISI 316 Stainless steel

7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0701 -

1

2

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All stainless steel pressure gauge for ammonia



Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts. Especially designed for refrigeration systems and ammonia.

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Bayonet

Mounting: See attached diagrams **A** or **C**

Threaded connection: $\frac{1}{2}$ "BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.0

Pressure limits:

Static: $\frac{1}{4}$ end of scale

Oscillating: $\frac{1}{2}$ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+65°C

Fluid: 60°C

Range: -1+9, -1+12, -1+15 o -1+25 Bar

Scale: Bar / °C for refrigerant R717 (NH_3)

Subdivision: According to standard EN 837-1

Pointer: Micrometric adjustment

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

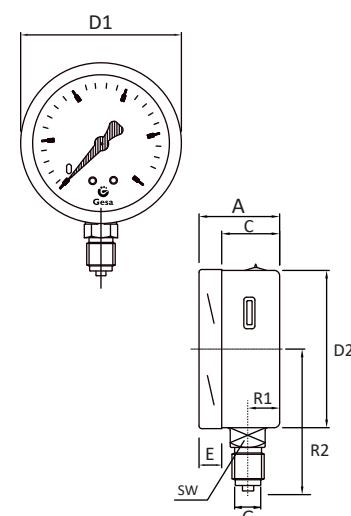
Welding: TIG welding

Blow-out disc and overttemperature relief plug: Neoprene

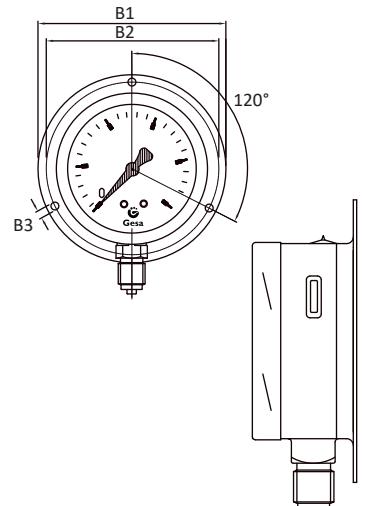
Application:

- Refrigeration
- Air conditioning
- Food industry

A Bottom



C Bottom with back flange



DIMENSIONS (mm)													WEIGHT (g)			
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3		
Ø100	A	16	49	32	101	17	99	$\frac{1}{2}$ " BSP	83	22	-	-	-	-	545	
Ø100	C	16	49	32	101	17	99	$\frac{1}{2}$ " BSP	83	22	86	132	124	5	566	

How to order

1. Case diameter

Ø100



2. Pressure range (Bar)

-1+9 -1+15
-1+12 -1+25



3. Pressure scale

Bar / °C R717 NH₃



4. Mounting

A

C



$\frac{1}{2}$ "BSP



6. Connection material

AISI 316 Stainless steel



7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0702 -

1

2

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4

5

6

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M15

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Safety pressure gauge with phenolic case and solid front



The rugged phenolic case gives an excellent resistance to chemical agents, harsh weather and corrosion.

It is manufactured according to EN 837-1, BS1780 y ASME B 40.1.

STANDARD PARAMETERS

Design: EN 837-1, BS1780 y ASME B 40.1.

Closing: Safety closing

Mounting: See attached diagram A

Threaded connection: 1/2" BSP (UNE-EN 10226-1)

IP protection: IP55 (EN 60529 / IEC 529)

Accuracy: Class 1.0 (first and last 25% of the scale) / 0.5 (rest of the scale)

Pressure limits:

Static: Full scale

Oscillating: 90% end of scale

Maximum: 130% end of scale for a short period of time

Temperature limits:

Environment: -40+60°C

Fluid: 60°C

Range: -1...0...1000 Bar

Scale: Bar or Bar/Psi

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8%, silicone oil or dry

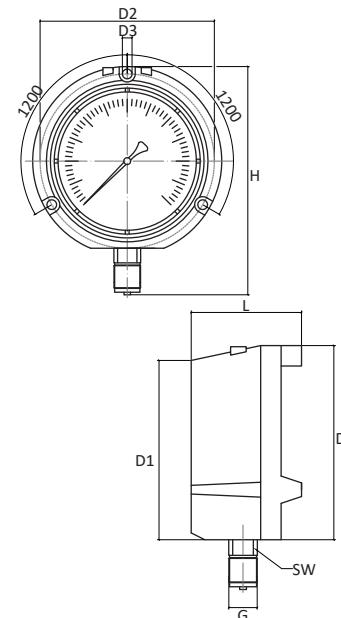
Pointer: Micrometric adjustment

Sensor element: Bourdon tube ("C" form)

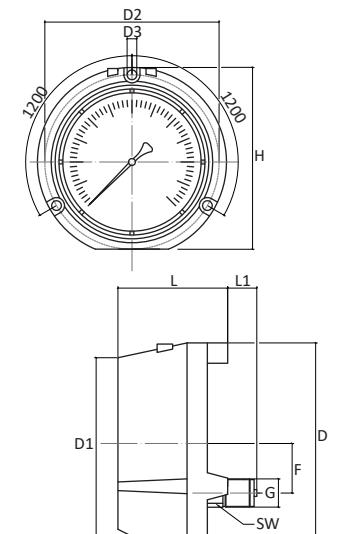
Application:

- Petrochemistry
- Gas facilities

A Bottom



B Back



MATERIALS

Case and ring: Phenolic resin (PBTB) / Polypropylene

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: TIG welding

DIMENSIONS (mm)											WEIGHT (g)	
DN	Mounting	D	D1	D2	D3	F	H	G	L	L1	SW	
Ø125	A	142.5	127	136.7	7.6	-	179	1/2" BSP	81	-	22	409
Ø125	B	142.5	127	136.7	7.6	44.5	179	1/2" BSP	81	30	22	421

How to order

1. Case diameter

Ø125



2. Pressure range (Bar)

-1+0	-1+5	-1+24	0+1.6	0+6	0+25	0+100	0+400
-1+0.6	-1+9	0+0.6	0+2.5	0+10	0+40	0+160	0+600
-1+3	-1+15	0+1	0+4	0+16	0+60	0+250	0+1000

3. Pressure scale

Bar
Bar/psi



4. Mounting

A

B



5. Threaded connection

1/2" BSP

6. Connection material

Brass
Stainless steel AISI 316

7. Antivibration fluid

Silicon oil
Glycerine
Dry

8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0801 -

1	2	3	4	5	6	7	8
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Pressure gauges with diaphragm in stainless steel

Pressure gauges with diaphragm in AISI 316 Stainless steel. It is designed for high viscosity or corrosive fluids. Especially suitable for difficult operating conditions due to the existence of vibration or rapid pressure changes. Useful in harsh environments, and ammonia cooling systems.

STANDARD PARAMETERS

Pressure gauge

Design: EN 837-1

Closing: Bayonet

Mounting: See attached diagram A

Threaded connection: ½" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.0

Pressure limits:

Static: ¼ end of scale

Oscillating: ½ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+65°C

Fluid: 60°C

Range: 0...25 Bar

Scale: Bar

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8% or dry

Pointer: Micrometric adjustment

Sensor element: Bourdon tube ("C" form)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

Application:

- Cooling
- Air conditioning
- Food
- Treatment Plants
- Hydraulic

Diaphragm

Temperature limit of the transmission liquid: Up to 200°C

MATERIALS

Pressure gauge

Case and ring: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Pressure gauge welding: TIG welding

Blow-out disc and overtperature relief plug: Neoprene

Diaphragm

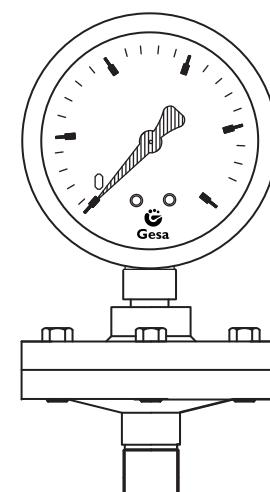
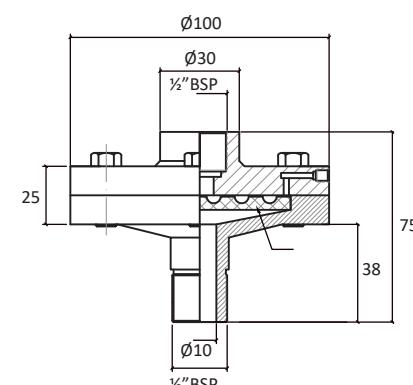
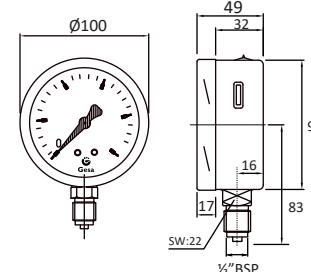
Body: AISI 316 Stainless steel

Transmission liquid: Silicon oil

Bolts: AISI 316 Stainless steel

A Bottom

Dimensions in mm



How to order

1. Case diameter

Ø100



2..Pressure range (Bar)

0+2.5	0+6	0+16
0+4	0+10	0+25

3.Pressure scale



4.Mounting



5.Threaded connection

½" BSP



6.Connection material

AISI 316 Stainless steel

7.Antivibration fluid

Glycerine 99.8%
Dry

8.Calibration certificate traceable to ENAC

7 point certificate
Without certificate

SEP 101 -

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---



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Screwed diaphragm seal with threaded connection



Application:

- Plumbing
- Pipes
- Aggressive media

STANDARD PARAMETERS

Sealing: PTFT (up to 260°C)

Limits of use

Max PN: 25 bar

Pressure range: -1 to 25 bar max

Max process temperature: 400°C

Connection threads: $\frac{1}{4}$ "BSP or $\frac{1}{2}$ "BSP male or female

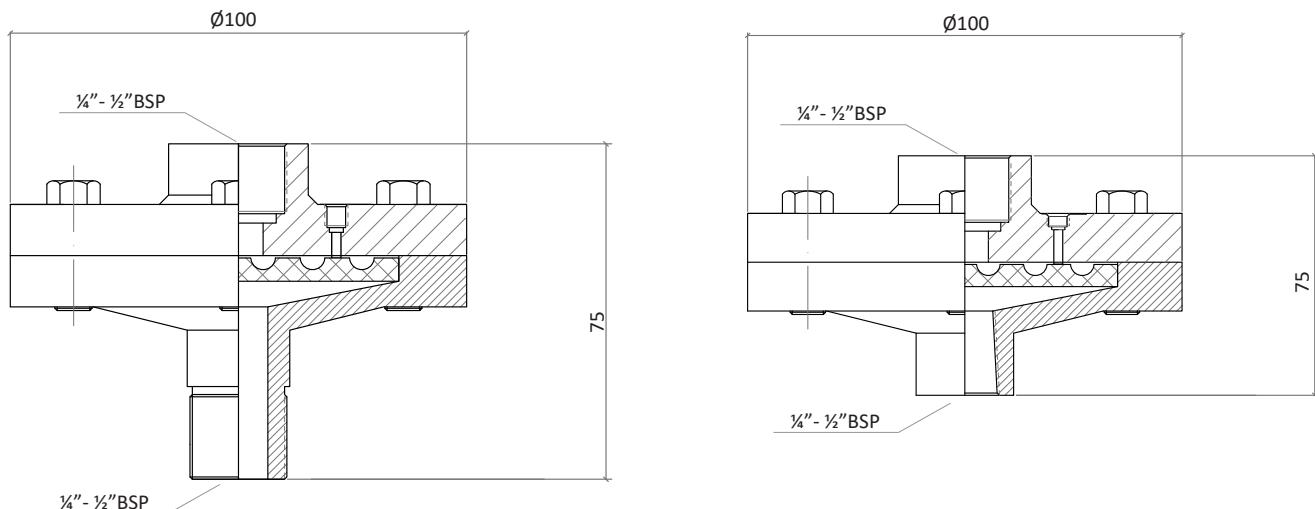
MATERIALS

Body: AISI 316 Stainless steel

Diaphragm: AISI 316L Stainless steel Welded to upper body

Bolts: AISI 316 Stainless steel

System fluid	Working range	Application	Instrument range
Silicone (Low Viscosity)	-40...130°C	General	-30...50°C
Silicone (Alta Viscosidad)	-30...240°C	High temperatures	-20...60°C
Fluorocarbon oil	-30...160°C	Salt and acids	-20...50°C
Glycerin	-5...100°C	Food	-5...40°C
Propylene glycol	-30...100°C	Food	-20...40°C



Welded diaphragm seal with threaded connection



They are used to protect the manometer from the medium.

Each medium requires a specific separator, this separator is universally used.

STANDARD PARAMETERS

Sealing: PTFT (Up to 260°C)

Limits of use

Max PN: 100 bar

Pressure range: -1 to 100 bar max

Max process temperature: 400°C

Connection threads: $\frac{1}{4}$ "BSP or $\frac{1}{2}$ "BSP male or female

MATERIALS

Body: AISI 316 Stainless steel

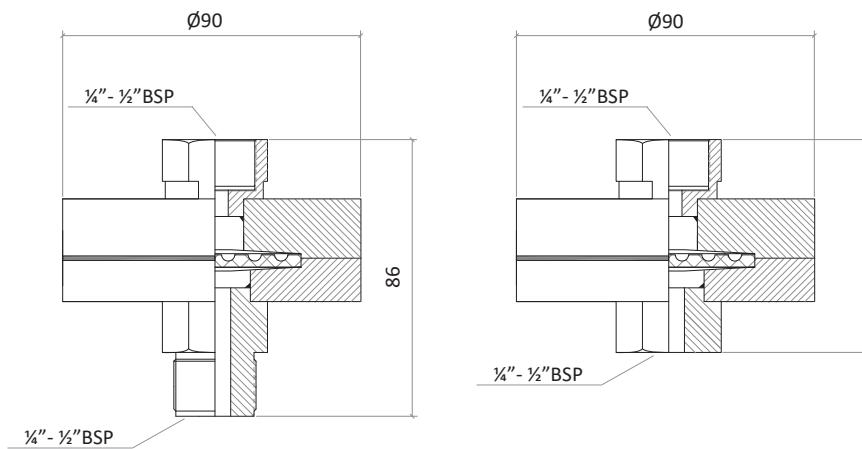
Diaphragm: AISI 316L Stainless steel Weldede to upper body

Bolts: Stainless steel

Application:

- Petrochemical industry
- Aggressive media
- Water treatment

System fluid	Working range	Application	Instrument range
Silicone (Low Viscosity)	-40...130°C	General	-30...50°C
Silicone (Alta Viscosidad)	-30...240°C	High temperatures	-20...60°C
Fluorocarbon oil	-30...160°C	Salt and acids	-20...50°C
Glycerin	-5...100°C	Food	-5...40°C
Propylene glycol	-30...100°C	Food	-20...40°C



Welded diaphragm seal with threaded connection for high pressure



Application:

- Plumbing
- Pipes
- Aggressive media

STANDARD PARAMETERS

Sealing: PTFT (Up to 260°C)

Limits of use

Max PN: 600 bar

Pressure range: 0 to 600 bar max

Max precess temperature: 400°C

Connection threads: $\frac{1}{4}$ "BSP or $\frac{1}{2}$ "BSP male or female

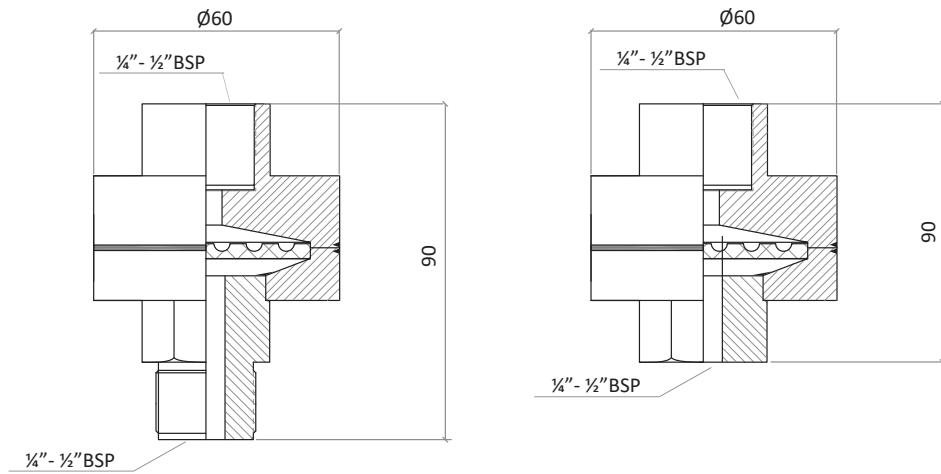
MATERIALS

Body: AISI 316 Stainless steel

Diaphragm: AISI 316L Stainless steel Weldede to upper body

Bolts: Stainless steel

System fluid	Working range	Application	Instrument range
Silicone (Low Viscosity)	-40...130°C	General	-30...50°C
Silicone (Alta Viscosidad)	-30...240°C	High temperatures	-20...60°C
Fluorocarbon oil	-30...160°C	Salt and acids	-20...50°C
Glycerin	-5...100°C	Food	-5...40°C
Propylene glycol	-30...100°C	Food	-20...40°C



Sanitary diaphragm seal for food industry with flanged connection



They are used to protect the manometer from the medium.

Each medium requires a specific separator, this separator is universally used.

STANDARD PARAMETERS

Sealing: PTFT (Up to 260°C)

Limits of use

Max PN: 60 bar

Pressure range: 0 to 60 bar max

Max process temperature: 400°C

MATERIALS

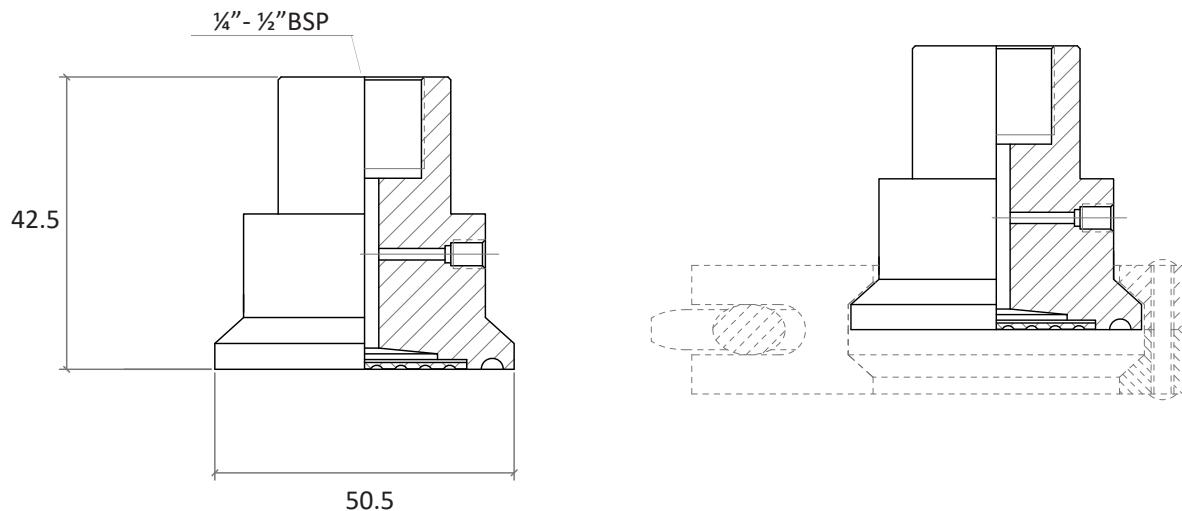
Body: AISI 316 Stainless steel

Diaphragm: Welded AISI 316L Stainless steel

Clamp: AISI 316 Stainless steel

Application:

- Food industry
- Aggressive media
- Water treatment

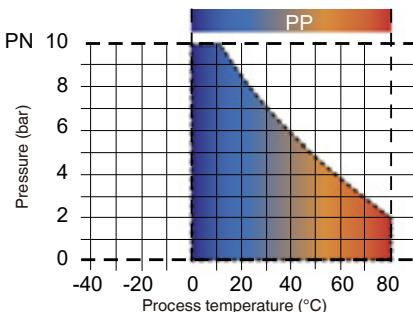
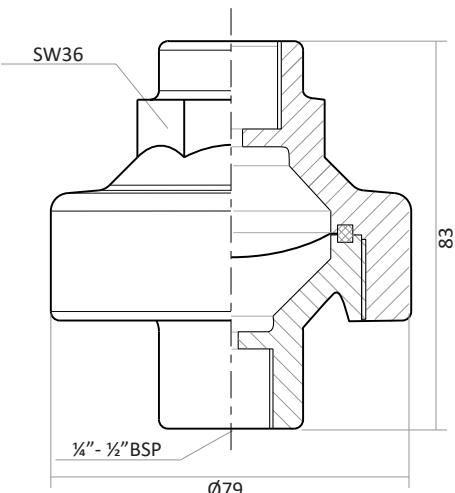
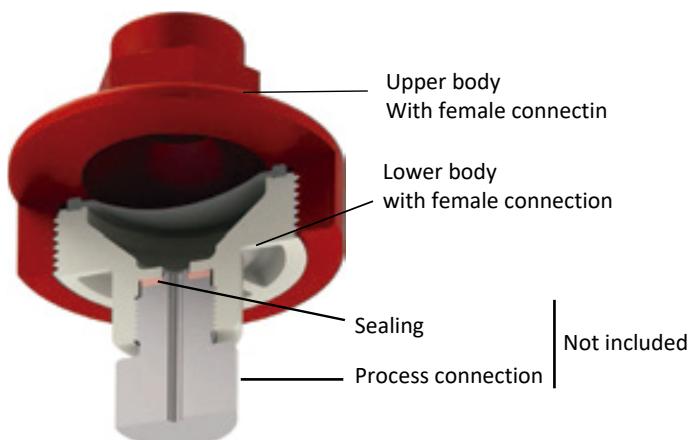


Plastic diaphragm seal with threaded connection

Versatile instrument for different application areas. Widely used in the facilities of water supply and wastewater treatment.

Application:

- Petrochemical industry
- Electroplating
- Water treatment



STANDARD PARAMETERS

Limits of use

Maximum nominal pressure: 10 bar

Pressure range: 0 to 10 bar max

Thread connection: 1/4" BSP or 1/2" BSP female-female

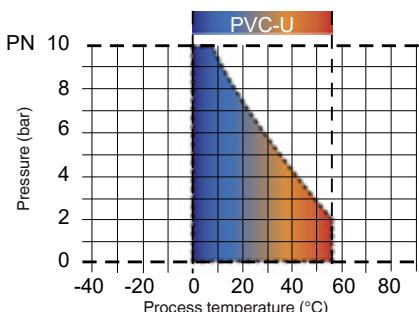
weight: 180g

MATERIALS

Upper body: Polypropylene (PP)

Lower body: Polyvinyl chloride (PVC-U)

Diaphragm: FPM or PTFE



STANDARD PARAMETERS

Limits of use

Maximum nominal pressure: 10 bar

Pressure range: 0 to 10 bar max

Thread connection: 1/4" BSP or 1/2" BSP female-female

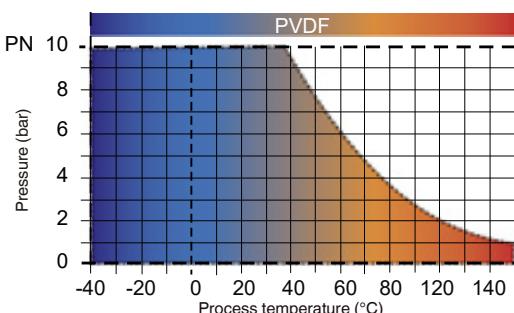
weight: 155g

MATERIALS

Upper body: Polypropylene

Lower body: Polypropylene

Diaphragm: FPM or PTFE



STANDARD PARAMETERS

Limits of use

Maximum nominal pressure: 10 bar

Pressure range: 0 to 10 bar max

Thread connection: 1/4" BSP or 1/2" BSP female-female

weight: 250g

MATERIALS

Upper body: Polyvinylidene fluoride (PVDF)

Lower body: Polyvinylidene fluoride (PVDF)

Diaphragm: PTFE





Application:

- Petrochemical industry
- Power plants

Pressure transmitter

The TP488 General Pressure Transducer consists of an OEM sensor housed in a stainless steel housing which gives it great resistance in gaseous or liquid media

STANDARD PARAMETERS

Type of pressure: Gauge or Absolute	Pressure range: 0...1000 bar
Accuracy: $\pm 0.5\%$ full scale (FS)	Stability: $< \pm 0.3\%$ FS/year
Thermal compensation: 0...50°C	
Coefficient to 0°C: Typical: $\pm 0.1\%$ FS°C (<1bar) / Maximum: $\pm 0.05\%$ FS/°C (>1bar)	
Output signal: 4~20mA DC (2 wires)	
Resistance: < U-12 / 0.02(Ω)	
Power supply: 12~28V DC	
Electric connection: DIN43650	
Connection threads: $\frac{1}{4}$ "BSP, $\frac{1}{2}$ "BSP or M20x1.5	

Standard	Overpressure	Break
0...0.2 bar	1.5	2
0...0.4 bar	1.5	2
0...0.6 bar	1.5	2
0...1 bar	1.5	2
0...1.6 bar	2.4	3.2
0...2.5 bar	3.75	5
0...4 bar	6	8
0...6 bar	9	12
0...10 bar	15	20
0...16 bar	24	32
0...25 bar	37.5	50
0...40 bar	60	80
0...100 bar	150	200

Limits of use

Overpressure: 1.5 times FS

Breakage pressure: 2 times FS

Working temperature: -20...80°C

IP protection: IP65

Storage temperature: -40...100°C

Vibration: 10g

Max humidity: 95% RH

Shock: 100g/11ms

MATERIALS

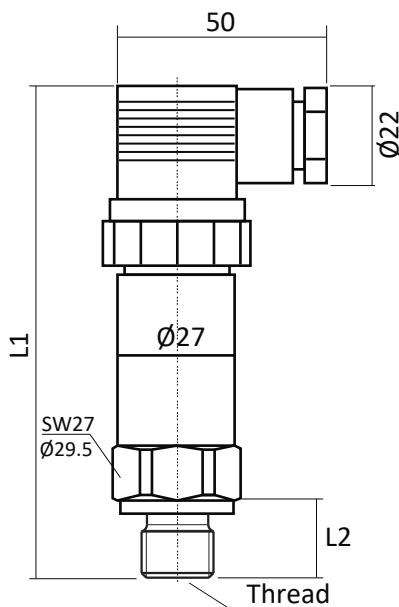
Body: Stainless steel 1Cr18Ni9Ti

Diaphragm: Stainless steel 316L or Tantalum welded to upper body

Pressure port: Stainless steel 1Cr18Ni9Ti or Hastelloy

O-ring: Viton

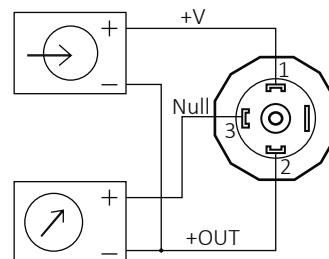
Dimensions in mm



thread	L1	L2
G $\frac{1}{4}$	15	112
G $\frac{1}{2}$	18	115
M20x1.5	15	112

Connection diagram

4 pins according to DIN 43650



T1





+



Glycerine or Silicon oil

+



Pressure limiter

+



Damper pressure

+



Cooling tower



Capilar



Coil damper

+



Valve

Vibrations

In systems subjected to severe vibrations it is necessary that the gauge pointer does not vibrate and prevent reliable pressure reading. To avoid it the manometer is filled with a liquid having certain viscosity which prevents the pointer vibration. The most common liquids are glycerine and silicon oil.

Overpressure

In cases where the gauge must be installed in facilities subjected to great pressure. It is desirable to include a pressure limiting valve which prevents overpressure damaging the pressure gauge.

Pulsation

Processes in which significant increases and pressure drops require parts to cushion these sudden changes that can damage the instrument and cause leakage.

Overheating

Temperatures in some of the systems subject to measurement can damage internal components of the gauge, so it is advisable to use heat sinks to ensure the operability of the instrument.

There are several accessories that meet this function, these are the most common.

Isolation

For installations where continuous pressure monitoring is not required, the use of valves to separate the pressure gauge system is recommended, either because the liquid can attack the internal parts in long exposures or because the use of the instrument alters the normal process operation.





Pressure limiter

The pressure limiter protects the instrument from pressures that exceed their limit of security.

They allow the use of specialized pressure gauges in systems with large pressure changes. The limiter can be adjusted to the maximum pressure by the pressure gauge and supported when it is exceeded the limiter blocks the duct protecting the pressure gauge.

STANDARD PARAMETERS

Maximum pressure supported: 600 Bar

Temperature of the fluid: -40 to 120°C

Instrument connection: ½"BSP Female

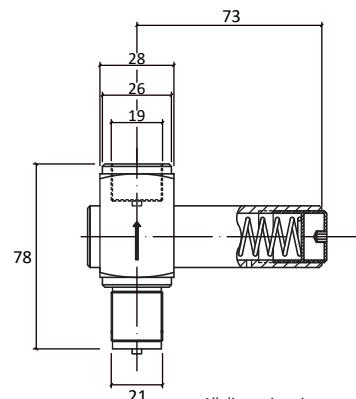
Process connection: ½"BSP Male

Degreased for O₂: Up to 50 Bar and 60°C

MATERIALS

Body and wetted parts: AISI 316 Stainless steel

Gasket/O-ring: Viton



All dimensions in mm

How to order

1. Model

Bellows (200 mbar to 4 Bar)
Piston (6 Bar to 400 Bar)

2. Degreased for O₂

Yes
No

M0901-

1

2

Cooling tower

Designed to protect the gauge of the high process temperatures. The air cools the liquid in contact with the surface

STANDARD PARAMETERS

Maximum pressure supported: 1000 Bar

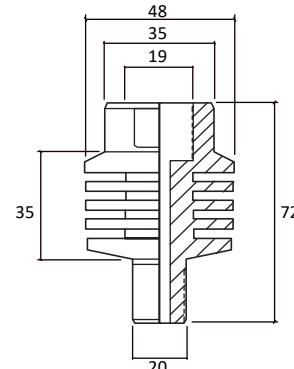
Maximum working pressure: 300°C

Instrument connection: ¼"NPT Female

Process connection: ¼"NPT Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



All dimensions in mm

How to order

Reference: M0903

Cooling tower

Designed to protect the gauge of the high process temperatures. The air cools the liquid in contact with the surface

STANDARD PARAMETERS

Maximum pressure supported: 1000 Bar

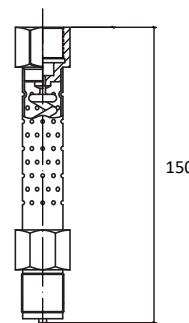
Maximum working pressure: 300°C

Instrument connection: ¼"NPT Female

Process connection: ¼"NPT Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



How to order

Reference: M0904



M17



Coil damper

Designed to protect the gauge from media at high temperatures, like steam. Also to reduce the effect of sudden changes in pressure. For initial installation must fill the siphon with water or other equivalent liquid

STANDARD PARAMETERS

Maximum pressure supported: 12 Bar

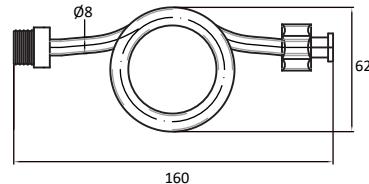
Temperature of the fluid: -40 to 120°C

Instrument connection: Female

Process connection: Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



All dimensions in mm

How to order

1. Instrument connection / process

½" BSP Female / Male

¼" BSP Female / Male

⅜" BSP Female / Male

M0902 -

1



Capillary extension

Designed to connect the gauge to a remote system and perform remote readings, it also cools the system's filling liquid providing protection to gauge. For installation it requires the measuring instrument available a flange or rim for paneling or a support for the extension

STANDARD PARAMETERS

Maximum pressure supported: 600 Bar

Temperature of the fluid: -40 to 120°C

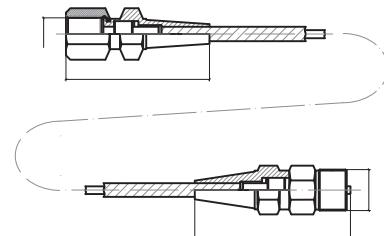
Instrument connection: ¼" BSP Female

Threaded connection: ¼" BSP Male

Capillary length: 1m, 1.5m, 2m or 2.5m

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



How to order

Reference: M0905



Pointer dampener

Designed to protect pressure measuring instruments from pulsating pressure applications. Sudden pressure changes are damped before they reach the sensing element, protecting it from high stress. It makes readings easier and prolongs the life of the instrument.

STANDARD PARAMETERS

Maximum pressure supported: 400 Bar (6000psi)

Temperature of the fluid: -25 to 200°C

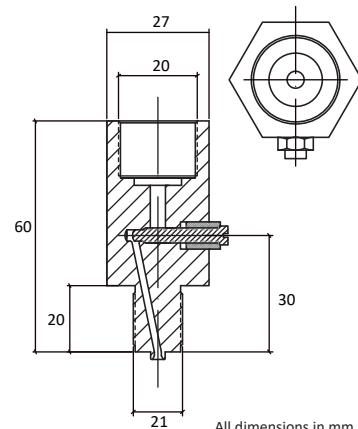
Instrument connection: ½" BSP Female

Threaded connection: ½" BSP Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel or brass

Adjustment screw: AISI 316 Stainless steel Gasket: Viton



All dimensions in mm

How to order

Reference: M0906



PRESIÓN
PRESSION
PRESSURE

Válvulas
Robinets
Valves

2



The ball valves PN 20/25, have been constructed in accordance with the following European Standards:

- UNE EN ISO 228
- UNE EN 22768

The most frequent applications of the ball valve are opening/closing.

It is not advisable to use them in partially open service for a long time under conditions of high pressure drop across the valve.

STANDARD PARAMETERS

Structure: See attached diagrams **A** or **B**

Handle: Lever

Axis: Antileak system

IP protection: IP56

Usage limits:

Maximum nominal pressure: 20-25 bar

Working temperature: -20 to 150°C (Without steam)

Threaded connection: $\frac{1}{4}$ "BSP, $\frac{3}{8}$ "BSP, $\frac{1}{2}$ "BSP, $\frac{3}{4}$ "BSP, 1"BSP, 1 $\frac{1}{4}$ "BSP, 1 $\frac{1}{2}$ "BSP or 2"BSP

MATERIALS

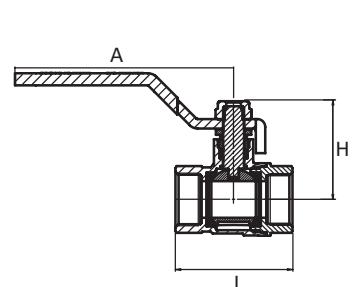
Body: Brass nickel plated

Handle: Stainless steel AISI 304 and plastic injected with rough texture.

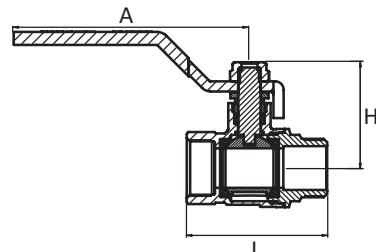
Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

A Female - Female



B Male - Female



Structure	Threads	Max PN	DIMENSIONS (mm)			WEIGHT (g)
			A	L	H	
Female - Female	$\frac{1}{4}$ "BSP	20 bar	83	36.7	31.5	126
	$\frac{3}{8}$ "BSP	20 bar	83	39.8	31.5	147
	$\frac{1}{2}$ "BSP	25 bar	83	43.6	37.9	153
	$\frac{3}{4}$ "BSP	25 bar	96	50	38.7	209
	1"BSP	25 bar	106	55.5	48.3	329
	1 $\frac{1}{4}$ "BSP	25 bar	134	69.3	54	512
	1 $\frac{1}{2}$ "BSP	25 bar	141	78.3	67.5	737
	2"BSP	25 bar	165	94	72.5	1160
Male- Female	$\frac{1}{4}$ "BSP	20 bar	85	42.9	31.5	130
	$\frac{3}{8}$ "BSP	20 bar	85	43.7	31.5	153
	$\frac{1}{2}$ "BSP	25 bar	83	49.3	37.9	162
	$\frac{3}{4}$ "BSP	25 bar	97	55.9	38.7	219

How to order

1. Structure

A **B**



2. Threaded connection

$\frac{1}{4}$ "BSP	$\frac{3}{8}$ "BSP	$\frac{1}{2}$ "BSP
$\frac{3}{8}$ "BSP	1"BSP	2"BSP
$\frac{1}{2}$ "BSP	1 $\frac{1}{4}$ "BSP	

V0125 -

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Brass nickel plated Ball valve for pressure gauges



Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

STANDARD PARAMETERS

Structure: See attached diagrams A or B

Handle: Lever

Axis: Antileak system

IP protection: IP56

Usage limits:

Maximum nominal pressure: 25 bar

Working temperature: -20 to 50°C (Without steam)

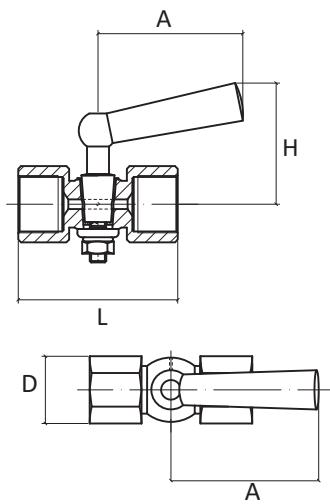
Threaded connection: 1/4"BSP, 3/8"BSP or 1/2"BSP

MATERIALS

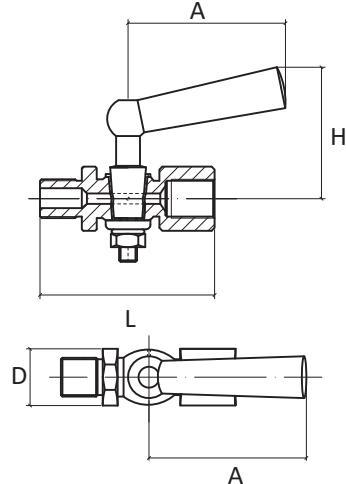
Body: Brass nickel plated

Handle: Polyethylene

A Female - Female



B Male - Female



Structure	Threads	Max PN	DIMENSIONS (mm)				WEIGHT (g)
			A	L	H	D	
Female - Female	1/4"BSP	25 bar	60	57.9	50	19	105
	3/8"BSP	25 bar	60	58.6	50	21.1	130
	1/2"BSP	25 bar	60	57.9	50	24.5	150
Male- Female	1/4"BSP	25 bar	60	57.9	50	19	111
	3/8"BSP	25 bar	60	58.6	50	21.1	134
	1/2"BSP	25 bar	60	57.9	50	24.5	145

How to order

1. Structure

A **B**

1/4"BSP 3/8"BSP 1/2"BSP

2. Threaded connection

VP0325 -

1

2

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Opening / Closing: The most common application of these Valves is in installations where the flow is interrupted regularly

It is not recommended to use them in partly open services for long periods of time and under high pressure drops.


Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

STANDARD PARAMETERS

Structure: See attached diagrams **A** or **B**

Handle: Short lever

IP protection: IP56

Usage limits:

Maximum nominal pressure: 16 bar

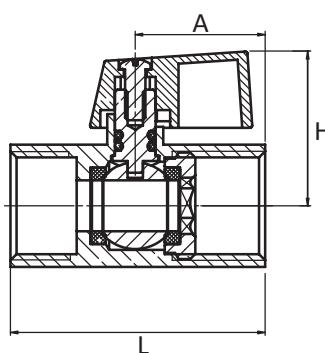
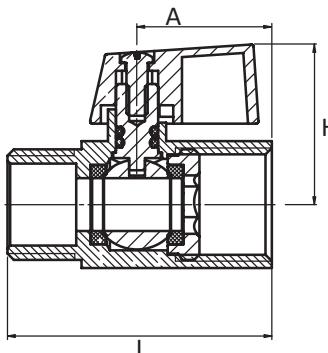
Working temperature: 0 to 90°C (Without steam)

Threaded connection: $\frac{1}{4}$ "BSP, $\frac{3}{8}$ "BSP or $\frac{1}{2}$ "BSP

MATERIALS

Body: Chromed brass

Handle: Epoxy coated brass

A Female - Female

B Male - Female

DIMENSIONS (mm) | **WEIGHT (g)**

Structure	Threads	Max PN	A	L	H	Weight (g)
Female - Female	$\frac{1}{4}$ "BSP	16 bar	23	43	28.5	110
	$\frac{3}{8}$ "BSP	16 bar	23	44.5	28.5	110
	$\frac{1}{2}$ "BSP	16 bar	26	50	30	125
Male- Female	$\frac{1}{4}$ "BSP	16 bar	23	44.5	28.5	95
	$\frac{3}{8}$ "BSP	16 bar	23	44.5	28.5	95
	$\frac{1}{2}$ "BSP	16 bar	25	50	28.5	114

How to order
1. Structure
A B

2. Threaded connection

$\frac{1}{4}$ "BSP	$\frac{3}{8}$ "BSP	$1\frac{1}{2}$ "BSP
$\frac{3}{8}$ "BSP	1" BSP	2" BSP
$\frac{1}{2}$ "BSP	$1\frac{1}{4}$ "BSP	


MV0116 -
1
2
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TEMPERATURA

TEMPÉRATURE

TEMPERATURE

Termómetros de vidrio
Thermomètres en verre
Glass thermometers



V-shaped thermometer

Liquid expansion thermometers for temperatures from -60°C to 600°C.

These instruments are very tough, easy to install and reliable. They resist extreme working conditions: vibrations, humidity, outdoors conditions, aggressive media like sea water or ammonia.

Useful to control fluid temperature in pipes or tanks from ship engines, refrigeration systems, boilers, HVAC systems, etc.

STANDARD PARAMETERS

Design: DIN 16181/16182/16185/16186/16189/16190/16195

Structure: The glass insert is secured by an aluminum case where the temperature range is printed. The metallic stem is fixed into the system by male or female thread or Bolt.

Case dimension (H): 110, 150 or 200mm

Mounting: See attached diagrams A, B or C

Connection system: Male or female thread or bolt

Threads: Standard BSP, metrics or NPT

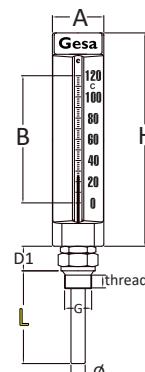
Stem length (L), including thread: 25-500mm

Stem diameter (Ø) : 10mm (optional 8mm)

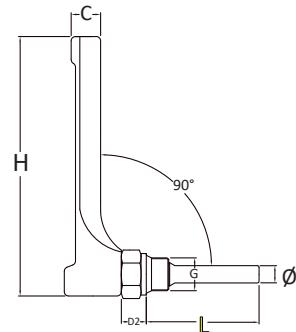
Range: Aluminium case: -60...0...600°C / Polyamide case: -60...0...200°C

Scale: °C printed on the right side of the case or double scale °C/F

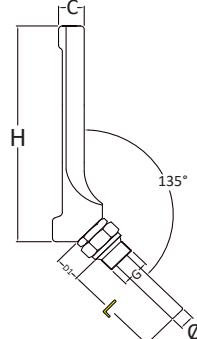
Straight



Angle 90°



Angle 135°



Application:

- Heating
- Boilers
- Naval Sector

How to order

1. Case size in mm (H)

110
150
200

2. Case material



Aluminium
Polyamide

3. Case Color

Gold
Silver



4. Mounting

A B C

5. Temperature Range (°C)

-10+50 0+120 0+400
-30+50 0+160 0+500
0+60 0+200 0+600
0+100 0+300



6. Temperature scale

Single °C
Double °C / °F

Temperature range according to DIN 16195

Tmp. in °C	H	Subdivision °C/line		Maximum error	Liquid
		110	150		
-60+40	200	1		2	Alcohol
-30+50	110		1	2	
0+60	150	1		1	Alcohol or Mercury
0+100	200		1	2	
0+120	110	2		2	
0+160	150	1		2	
0+200	200		1	1	
0+300	110	2		2	
0+400	150	5		5	
0+500	200	10		5	
0+600		10		5	Mercury

7. Thermometric liquid

Blue alcohol
Red alcohol
Mercury

8. Stem length in mm (L), including thread

25 40 55 70 85 110 135 200 270 400
30 45 60 75 90 120 140 220 300 450
35 50 63 80 100 130 160 250 350 500

9. Stem diameter in mm (Ø)

Ø10
Ø8

10. Stem material

Brass
Chromed carbon steel
Galvanized carbon steel
Stainless st. AISI 304
Stainless st. AISI 316

11. Threads

1/2" BSP male 3/4" BSP male M18x150male Female crazy nut
1/2" BSPT male 3/4" NPT male M20x150 male Without threaded connection
1/2" NPT male Bolt Ø16 mm M22x150 male More threads on demand
3/8" BSP male Bolt Ø18 mm M27x200 male

12. Logo

GESA
Without Logo

13. Calibration certificate traceable to ENAC

3 points
4 points
5 points
6 points
7 points
Without certificate

C0101 -

1	2	3	4	5	6	7	8	9	10	11	12	13
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V-shaped thermometer: Glass inserts

Liquid expansion thermometers for temperatures from -60°C to 600°C.
These replacement glass inserts for the industrial thermometers C0101 are very tough, easy to install and reliable.



STANDARD PARAMETERS

Design: DIN 16181/16182/16185/16186/16189/16190/16195

Structure: The glass insert is secured by an aluminum case where the temperature range is printed. The metallic stem is fixed into the system by male or female thread or through a bolt

Dimension according to the case size (H): 110, 150 or 200mm

Mounting: See attached diagrams A, B or C

Stem length (L), including thread: 25-500mm

Insert diameter (Ø) : 6.25mm

Range: -60...0...600°C

Scale: °C or double scale °C and °F

MATERIALS

Insert: Prismatic glass with white strip for T<450°C and Round glass with yellow back for T>450°C

Thermometric liquid: Blue or red alcohol for T<200°C / Mercury for T>200°C

Application:

- Heating
- Boilers
- Naval Sector

Mounting	DIMENSIONS(mm)					WEIGHT (g)	DIN
	H	A	B	C	E		
Straight	110	76	60	16	-	11	DIN 16181
	150	113	90	23	-	13	DIN 16185
	200	153	130	23	-	18	DIN 16189
Angle 90°	110	86	60	15	11	11	DIN 16182
	150	124	90	18	16	13	DIN 16186
	200	174	130	24	20	18	DIN 16190
Angle 135°	110	86	60	15	11	11	-
	150	124	90	18	16	13	-
	200	174	130	24	20	18	DIN 16191

Liquid operation limits

		Minimum operation temp. (°C)	Maximum operation temp. (°C)
Mercury	Hg	-38	+800
Ethanol	C ₂ H ₅ O	-110	+110
Toluene	C ₆ H ₅	-115	+135
Etil Benzoate	C ₁₂ H ₁₈ O ₂	-40	+220

Stem lenght

L	H=110mm		H=150mm		H=200mm	
	F	G	F	G	F	G
40	81	66	87	66	97	66
63	104	89	110	89	120	89
100	141	126	147	126	157	126
160	201	186	207	186	217	186
200	241	226	247	226	257	226

Temperature range according to DIN 16195

Tmp. in °C	H	Subdivision °C/line			Maximum error	Liquid	
		110	150	200			
-60+40	110	2			2	Alcohol	
	150	1					
	200	1					
	110		2		2		
	150		2				
	200		1				
	110			2	2	Alcohol or mercury	
	150			2			
	200			1			
	110				2		
	150						
	200						
0+60	110	2			2		
	150	1					
	200	1					
	110		2		2		
	150		2				
	200		1				
	110			2	2		
	150			2			
	200			1			
	110				2		
	150						
	200						
0+100 0+120	110	2			2		
	150	1					
	200	1					
	110		2		2		
	150		2				
	200		1				
	110			2	2		
	150			2			
	200			1			
	110				2		
	150						
	200						
0+300 0+400 0+500 0+600	110	2			2		
	150	5					
	200	10					
	110		2		5		
	150		5				
	200		10				
	110			2	5		
	150			5			
	200			10			
	110				5		
	150						
	200						

How to order

1. Case dimension (H)

110
150
200

2. Mounting

A B C

3. Temperature range (°C)

-10+50 0+100 0+200 0+500
-30+50 0+120 0+300 0+600
0+60 0+160 0+400

4. Temperature scale

Single °C
Double °C / °F

5. Thermometric liquid

Blue alcohol
Red alcohol
Mercury

6. Stem length in mm (L), including thread

25	40	55	70	85	110	135	200	270	400
30	45	60	75	90	120	140	220	300	450
35	50	63	80	100	130	160	250	350	500

7. Calibration certificate traceable to ENAC

3 points
4 points
5 points
6 points
7 points
Without certificate

C0201 -

1	2	3	4	5	6	7
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V-shaped thermometer: Protection sheaths

They are used to enhance safety at the point where the thermometer is fixed to the facility. They are required when operating pressure is over 16 bar. These accessories also prevent facility stoppages whenever the thermometer has to be replaced. They resist extreme hard conditions: vibrations, humidity, high temperature, outdoor installations.



STANDARD PARAMETERS

Design: DIN 16179

Structure:

BD- Two welded pieces, female connection to the thermometer and male connection to the process

BE- A single piece, female connection to the thermometer and male connection to the process

BS- A single piece, female connection to the thermometer and welded to the process

CD- Two welded pieces, male connection to the thermometer and female connection to the process

CE- A single piece, male connection to the thermometer and female connection to the process

CS- A single piece, male connection to the thermometer and welded to the process

Connection system: Male thread or Welded

Threads: Standard BSP, metrics or NPT

Stem length (L), including thread: 25-500mm

Stem diameter (\varnothing): Ø12, Ø13, Ø14, Ø17 or Ø22

MATERIALS

Brass / Carbon steel /Stainless steel AISI 304, 316 or 316L

DIMENSIONS(mm)

	d1	d3	d4	d5	d7	r1	s1	h1	h2	h3	b1	b2	sw	L2
BD	M20x1.5	25	27	-	13	-	2	22	12	-	16	25	27	L - 18
	½" BSP	32	32	-	13	-	2	26	15	-	20	25	32	L - 22
	¾" BSP	32	32	-	17	8,5	7,5	22	12	-	16	25	27	L - 11
BE	M20x1.5	25	27	-	22	9,5	7,5	26	15	-	20	25	32	L - 15
	½" BSP	32	32	-	22	9,5	7,5	26	15	-	20	25	32	L - 15
	¾" BSP	-	-	-	30	25	-	8,5	7,5	-	39	16	19	L - 18
BS	M20x1.5	-	-	-	36	26	-	9,5	7,5	-	45	20	24	L - 18
	½" BSP	-	-	-	32	-	-	13	-	-	-	-	-	L - 18
	¾" BSP	-	-	-	25	-	-	13	-	-	-	-	-	L - 18
CD	M20x1.5	25	-	-	32	-	-	13	-	-	-	-	-	L - 22
	½" BSP	-	-	-	32	-	-	13	-	-	-	-	-	L - 22
	¾" BSP	-	-	-	25	-	-	13	-	-	-	-	-	L - 18
CE	M20x1.5	25	-	-	32	-	-	13	8,5	2	25	25	-	L - 18
	½" BSP	-	-	-	32	-	-	13	9,5	2	29	32	-	L - 22
	¾" BSP	-	-	-	25	-	-	13	9,5	2	29	32	-	L - 18
CS	M20x1.5	-	-	-	30	-	-	8,5	7,5	-	39	-	-	L - 18
	½" BSP	-	-	-	30	-	-	9,5	7,5	-	45	-	-	L - 18
	¾" BSP	-	-	-	24	-	-	8,5	7,5	-	39	-	-	L - 18

L2 measures the distance of the stem and thread in the protection sheath

L measures the distance of the stem and thread in the thermowell

Operation limits

	BD	BE	BS	CD	CE	CS
Maximum pressure bar	Brass	25	150	160	25	150
Steel	40	150	160	25	150	150

	Brass	Galvanized carbon steel	Stainless steel AISI 304
Maximum temperature °C	160	300	300
Steel	400	300	400

How to order

1. Model

BD **BE** **BS**
CD **CE** **CS**

2. Stem length in mm (L)

63 100 160 200

3. Stem diameter in mm

Ø12 Ø13 Ø14
Ø17 Ø22

4. Threaded connection

½" BSP male ½" BSP Female



Brass
Chromed carbon steel

5. Stem Material

Galvanized carbon steel
Stainless steel AISI 304

Stainless steel AISI 316

C0301 -

1	2	3	4	5
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Replacement



V-shaped thermometer: Thermowell

Thermometer replacements for temperatures from -60°C to 600°C.
These instruments are very tough, easy to install and reliable



STANDARD PARAMETERS

Design: DIN 16179

Structure: For thermometers Straight/Angle 135° and Angle 90°

Connection system : Male or female thread or Bolt

Threads: Standard BSP, metrics or NPT

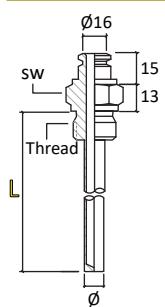
Stem length (L), including thread: 25-500mm

Stem diameter (Ø): Ø8, Ø10 or Ø12mm

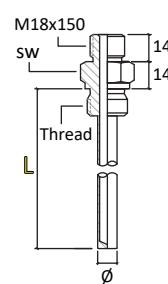
MATERIALS

Brass / Chromed or Galvanized carbon steel / Stainless steel AISI 304, 316 or 316L

Angle 90°



Straight Angle 135°



How to order

1. Model	2. Stem lenght in mm (L)						3. Stem diameter in mm			4. Threaded connection				
Angle 90°	Straight	Angle 135°	30	45	80	130	250	400	Ø8	Ø10	Ø12	1/2" BSP male	3/8" NPT male	M22X150 male
			35	50	100	160	300	450				1/2" NPT male	M16X150 male	M27X200 male
			40	63	120	200	350	500				3/8" BSP male	M18X150 male	Bolt Ø16mm
5. Stem material						1	2	3	4	5		www.termometros.com		
Brass	Brass	Brass	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 316	Stainless steel AISI 316								
Chromed carbon steel	Chromed carbon steel	Galvanized carbon steel												

V-shaped thermometer: Replacement cases

Thermometer replacements for temperatures from -60°C to 600°C.
These instruments are very tough, easy to install and reliable



STANDARD PARAMETERS

Case dimension: 110, 150 or 200mm

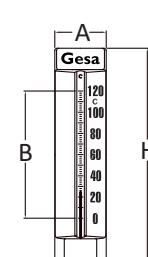
Case color: Gold or Silver

Mounting: Straight, Angle 90 or Angle 135

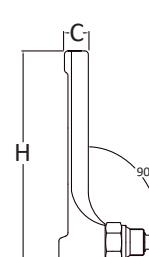
MATERIALS

Aluminium or Polyamide

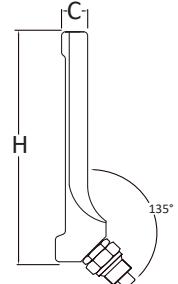
A Straight



B Angle 90°



C Angle 135°



How to order

1. Case dimension (H)	2. Case material	3. Case color	4. Mounting	5. Temperature range (°C)	6. Temperature scale
110	Aluminium	Gold	A	-10+50	Single °C
150	Polyamide	Silver	B	0+120	Double °C / °F
200			C	-30+50	
				0+60	
				0+200	
				0+300	
				0+100	
				-30+50	
				0+160	
				0+500	
				0+600	

7. Logo

GESA
Without Logo

7. Logo

GESA
Without Logo

7. Logo

GESA
Without Logo

1	2	3	4	5	6	7
C0202 -						

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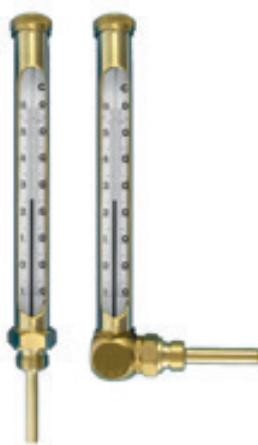


Industrial glass thermometers with opal scale

Liquid expansion thermometers for temperatures from -40°C to 200°C.

These instruments are very tough, easy to install and reliable.

They resist extreme hard conditions: vibrations, humidity, indoor and outdoors.



STANDARD PARAMETERS

Design: DIN 16167, DIN 16174, DIN 16168, DIN 16175

Structure: The opal is secured by a metallic case. The temperature range is printed on the opal. The metallic stem is fixed into the system by male or female thread or through a bolt.

Case dimension (HxØF): 145xØ20, 170xØ20, 200xØ22 or 260xØ22mm

Mounting: See attached diagrams A or B

Connection system: Male or female thread or Bolt

Threads: Standard BSP, metrics or NPT

Stem length (L), including thread: 40-300mm

Stem diameter (ØV) : 10 or 12mm

Range: -40...0...200°C

Scale: °C or double scale °C /°F

MATERIALS

Case: Chromed steel, Stainless steel AISI 316 or Brass

Scale: Opal

Insert: Glass

Thread and Stem: Chromed steel, Stainless steel AISI 316 or Brass

Termometric liquid: Blue or red alcohol

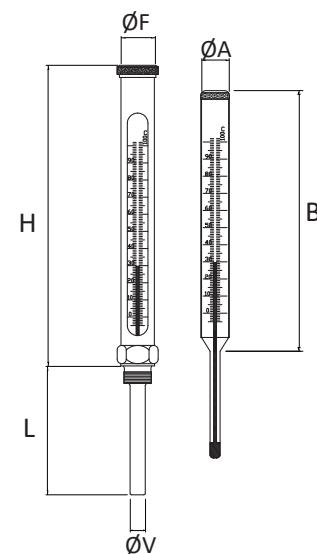
Application:

- Heater
- Boilers
- Naval sector

Mounting	DIMENSIONS(mm)				WEIGHT (g)	DIN
	H	B	ØF	ØA		
Straight	145	135	20	16	81	-
	170	160	20	16	81	DIN 16177
	200	190	22	18	130	-
	260	220	22	18	152	DIN 16174
Angle 90°	145	135	20	16	81	-
	170	160	20	16	81	DIN 16168
	200	190	22	18	130	-
	260	220	22	18	152	DIN 16167

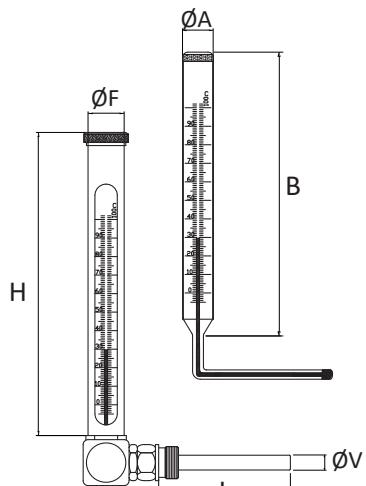
A

Straight



B

Angle 90°



How to order

1. Case dimension

145xØ20mm
170xØ20mm
200xØ22mm
260xØ22mm

2. Case material

Brass
Chromed steel
Stainless steel AISI 316

3. Mounting

A B

4. Temperature range (°C)

-40+40 0+60 0+120 0+200
-10+60 0+100 0+150

5. Temperature scale

Single cC
Double cC / dF

6. Thermometric liquid

Blue alcohol
Red alcohol
Mercury

Temperature range according to DIN 16195

Tmp. in °C	H	Subdivision °C/line		Maximum error	Liquid
		145	170		
-40+40	200	1		2	Blue alcohol
	260				
	-10+50	145	2		
		170			
		200	1	1	
		260			
	0+150	145			
		170			
		200	2	2	
		260			

7. Stem length in mm (L), including thread

40 55 100 250
45 63 160 300
50 80 200

8. Stem diameter in mm (ØV)

Ø10
Ø12

9. Stem material

Brass
Chromed carbon steel Stainless steel AISI 304
Galvanized carbon steel Stainless steel AISI 316

10. Threaded connection

½" BSP male
½" BSPT male
¾" NPT male
¾" NPT male
½" BSP male

½" BSP male
¾" NPT male
Bolt Ø16 mm
Bolt Ø18 mm

M18x150 male
M20x150 male
M22x150 male
M27x200 male

11. Calibration certificate traceable to ENAC

3 points
4 points
5 points
Without certificate

F0101 -

1	2	3	4	5	6	7	8	9	10	11
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Solid stem glass thermometers protected in a metallic sheath 10mm diameter with a ring at the upper side for hanging.

Useful for high and under zero temperatures.

The scale marked on the thermometer is acid and alkali proof.

STANDARD PARAMETERS

Structure: The stem glass is fixed and secured with a plug located at each end of the sheath. In the upper side, the sheath is complemented with a ring useful for hang. See attached diagram **A**

Upper closing: Rounded, Ball or Ring

Stem dimension (Hv x Øv): 200xØ6mm, 300xØ6mm or 400xØ6mm

Sheath dimension: 218xØ10mm, 318xØ10mm or 418xØ10mm

Range: -50...0...500°C

Scale: °C stamped on the glass

Glass rod: White strip (Low temperatures) / Yellow strip (High temperatures)

Application:

- Heating
- Boilers
- Naval sector
- Fridges
- Laboratories
- General

MATERIALS

Sheath: Brass

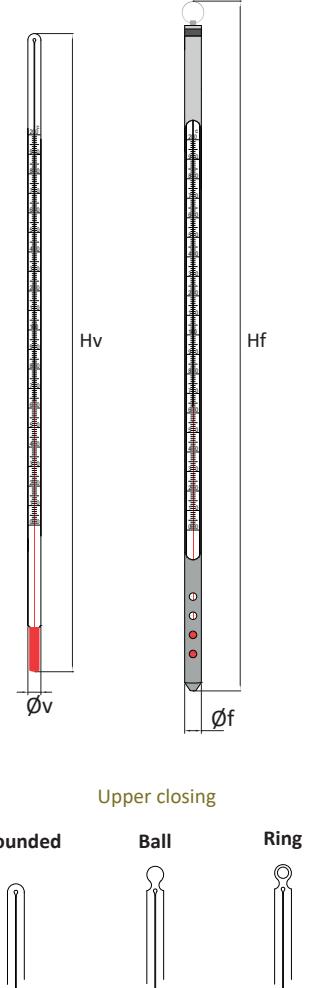
Stem: Round glass

Thermometric liquid: Blue or red alcohol for temp<200°C / Mercury for temp.>200°C

Temperature range according to DIN 16195 (H=300mm)

Tmp. in °C	Subdivision °C/line	Maximum error	Liquid
-50+50	1	2	Alcohol
-40+40 -10+100 0+60 0+100	1	1	
0+200	2	2	
0+300	2	2	
0+500	10	5	

A Straight



How to order

1. Model

- With brass sheath
- Without sheath

2. Temperature range

- | | | | |
|--------|---------|-------|-------|
| -50+50 | -10+100 | 0+100 | 0+300 |
| -40+40 | 0+60 | 0+200 | 0+500 |

3. Thermometric liquid

- Blue alcohol
- Red alcohol
- Mercury

4. Upper closing

- Rounded
- Ball
- Ring

5. Stem Length

- 200mm
- 300mm
- 400mm

6. Calibration certificate traceable to ENAC

- 3 points
- 4 points
- 5 points
- 6 points
- 7 points
- Without certificate

W0101 -

1	2	3	4	5	6
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TEMPERATURA

TEMPÉRATURE

TEMPERATURE

Termómetros de dial
Thermomètres à Cadran
Dial thermometers

4



Dial thermometers with bimetallic strip, inner components in copper alloy.
Manufactured according to EN 13190. Radial or back connection.

Reliable tools that withstand extreme working conditions: engine vibration, humidity and aggressive media such as seawater.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagrams A or B

Closing: A: Bayonet; B: Sealed ring

IP protection: IP54 (EN 60529)

Accuracy: Ø80: Class 1.6 / Ø100-Ø150: Class 1.0

Usage limits:

Working temperature: -40+65°C

Fluid overtemperature: maximum 10% end of scale

Max. pressure on stem: 16 bar

Temperature range: -30+50; 0+60; 0+120; 0+200; 0+400 °C

Sensor element: Bimetallic strip

Stem length: 50; 65; 100; 150; 200; 250; 300 mm

Process connection: Plain Bulb, Sliding on the stem, protection sheath or crazy nut

Threaded connection (G): 1/2"NPT, 1/2"BSP or 3/4"BSP / Male or Female

Application:

- Compressed air
- Compressors
- HVAC
- Hydraulics
- Pneumatics

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bimetallic strip: Copper alloy

Threaded connection: Brass or AISI 316 Stainless steel

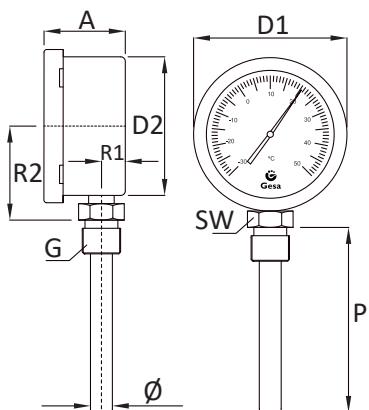
Display: Glass

Dial: White lacquered aluminum

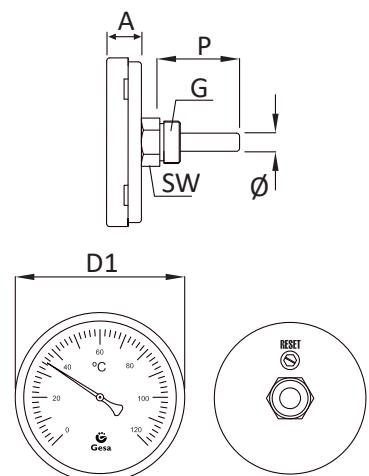
Pointer: Black lacquered aluminum

Bulb/Stem: AISI 316 stainless steel

A Bottom



B Back



Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
-30+50 0+60	-20+40 +10+50	1	1.5
0+120 0+200	+20+100 +20+180	2	3
0+400	+50+350	5	8

How to order

1. Case diameter

Ø80 Ø100 Ø150



2. Temperature range (°C)

-30+50 0+60 0+120 0+200 0+400

3. Mounting

A B

4. Stem length (mm)

50 100 250
65 150 300

5. Process connection

Protection sheath Plain bulb
Sliding on stem Crazy nut



6. Threaded connection

1/2"BSP
3/4"BSP
1/2"NPT

7. Connection type

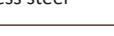
Male
Female

8. Connection material

Brass
AISI 316 Stainless steel

9. Calibration certificate traceable to ENAC

3 points
4 points
5 points
Without certificate



D01 -

1	2	3	4	5	6	7	8	9
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Bimetallic dial thermometer in stainless steel with orientable stem



Dial thermometers with bimetallic strip, inner components in copper alloy.
Manufactured according to EN 13190.

Orientable stem makes it a versatile instrument, useful for a wide variety of applications.

Reliable tools that withstand extreme working conditions: engine vibration, humidity and aggressive media such as seawater.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram E

Closing: Bayonet

IP protection: IP54 (EN 60529)

Accuracy: Class 1.6

Usage limits:

Working temperature: -40+65°C

Fluid overtemperature: maximum 10% end of scale

Max. pressure on stem: 16 bar

Temperature range: -40+60; 0+120; 0+200; 0+300; 0+400 °C

Sensor element: Bimetallic strip

Stem length: 150; 200; 250 mm

Process connection: Sliding on the stem or Plain bulb

Threaded connection (G): ½"BSP, ¾"BSP or ½"NPT / Male or Female

Application:

- Compressed air
- Compressors
- HVAC
- Hydraulics
- Pneumatics

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bimetallic strip: Copper alloy

Threaded connection: AISI 316 Stainless steel

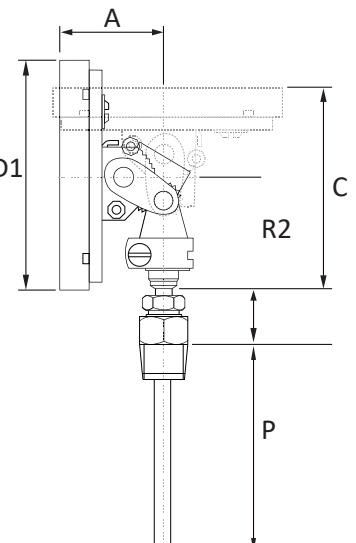
Display: Glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

Stem: AISI 316 stainless steel

E Orientable



DIMENSIONS (mm)								WEIGHT (g)		Temperature scale according to DIN 16206			
DN	Mounting	R1	A	D1	Ø	R2	SW	D2	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error	
Ø100	E	12	47	84	8	54	22	75	-40+60	-30+40	1	1.5	
Ø150	E	-	17	84	8	-	22	-	0+120 0+200	+20+100 +20+180	2	3	
									0+300 0+400	+50+250 +50+350	5	8	

How to order

1. Case diameter

Ø100 Ø150



-40+60 0+120 0+200 0+300 0+400



3. Stem length (mm)

150 200 250



4. Process connection

Sliding on stem
Plain bulb

5. Threaded connection

½"BSP
¾"BSP
½"NPT



6. Connection type

Male
Female



7. Calibration certificate traceable to ENAC

3 points
4 points
5 points
Without certificate

D02 -

1	2	3	4	5	6	7
---	---	---	---	---	---	---



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Dial thermometers with bimetal strip with internal copper alloy elements.
Manufactured according to EN 13190 standard.

They are economic instruments especially designed for heating and cooling applications.



STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagrams A or B

Closing: A: Bayonet; B: Sealed ring

IP protection: IP56 (EN 60529)

Accuracy: Class 2.5

Temperature limits:

Room temperature: -40+65°C

Fluid overtemperature: maximum 10% end of scale

Max. pressure on stem: 16 bar

Temperature range: -20+60; 0+120 °C

Sensor element: Bimetallic strip

Stem length (P): 50; 65; 100 mm

Process connection: Trough protection sheath

Threaded connection (G): 1/2"BSP Male

Application:

- Heating systems
- Refrigeration

MATERIALS

Case and ring: Zincked steel

Moving parts and bimetallic strip: Copper alloy

Threaded connection: Brass or AISI 316 Stainless steel

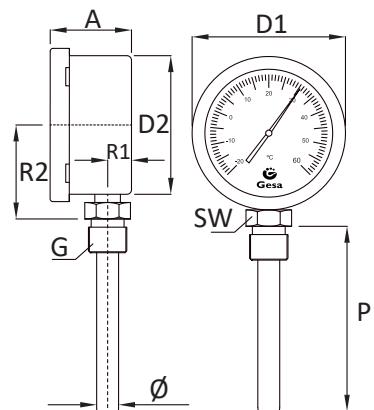
Display: Glass

Dial: White lacquered aluminum

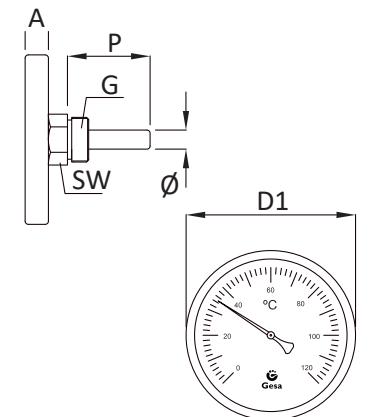
Pointer: Black lacquered aluminum

Stem: Brass

A Bottom



B Back



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	D1	Ø	R2	SW	D2	P=50mm	P=100mm
Ø63	A	12	47	68	11	44	22	60	174	184
Ø63	B	-	12	63	11	-	22	-	134	147
Ø80	A	13	50	84	11	54	22	75	204	216
Ø80	B	-	13	80	11	-	22	-	-	176

Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
-20+60	-10+50	1	2
0+120	+20+100	2	3

How to order

1. Case diameter	2. Temperature range (°C)	3. Mounting	4. Stem length (mm)	5. Connection material
Ø63 Ø80	-20+60 0+120	A B	50 65 100	Brass AISI 316 Stainless steel

6. Calibration certificate traceable to ENAC

- 3 points 6 points
4 points 7 points
5 points Without certificate

D03 -

1	2	3	4	5	6
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D 22

Pyrometer with antivibration system for High Temperatures



Gas expansion thermometers manufactured according to EN 13190 standard.
Reliable tools that withstand extreme working conditions: engine vibration, humidity and aggressive media such as seawater.

Especially designed to measure the temperature of the exhaust gases of the engines.
The pyrometer box is filled with silicon oil serving as a vibration dampener.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagrams A or B

Closing: Bayonet. Sealed by rubber gasket

IP protection: IP65 (EN 60529)

Accuracy: Class 1.6

Temperature limits:

Room temperature: -40+65°C

Fluid overtemperature: maximum 15% end of scale

Max. pressure on stem: 50 bar

Temperature range: +50+650 °C/F

Sensor element: Bourdon tube (Inert gas expansion)

Stem length (P): 150; 200; 300; 400 mm

Process connection: Sliding on the stem

Threaded connection: 1/2"BSP, 1/2"NPT, 3/8"BSP, 3/4"BSP, M20x150 or M22x150

Antivibration liquid: Silicon oil

Vibration damping system: Spring or Silent block (mesh)

Application:

- Engines
- HVAC

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bourdon tube: Stainless steel

Threaded connection: AISI 316 Stainless steel

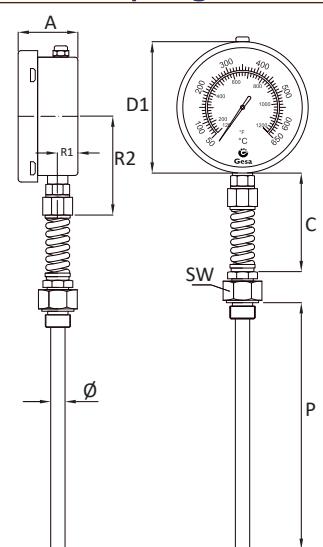
Display: Glass

Dial: White lacquered aluminum

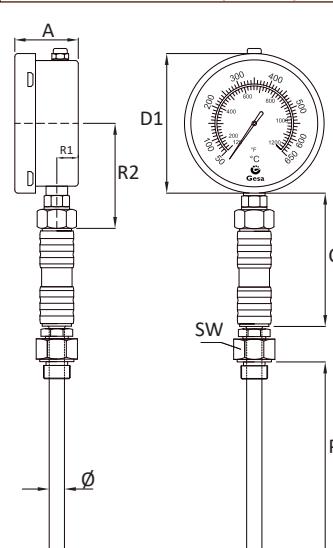
Pointer: Black lacquered aluminum

Stem: AISI 316 Stainless steel

A Spring



B Silent block (mesh)



DIMENSIONS (mm)								WEIGHT (g)	
DN	Tipo	R1	A	D1	Ø	R2	SW	C	
Ø100	A	12	50	112	12	83	27	103	1020
Ø100	B	12	50	112	12	84	27	130	1020

Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
+50+650	+100+600	10	10

How to order

1.Vibration damping system

A **B**



2.Stem length (mm)



150	300	1/2"BSP	3/8"BSP	M20x150	More on demand
200	400	1/2"NPT	3/4"BSP	M22x150	

3.Threaded connection



4.Connection type

Male
Female

5.Calibration certificate traceable to ENAC

3 points 6 points
4 points 7 points
5 points Without certificate

D22 -

1	2	3	4	5
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D4



Rigid high temperature pyrometer

Gas expansion thermometers manufactured according to EN 13190 standard. Reliable tools that withstand extreme working conditions: engine vibration, humidity and aggressive media such as seawater.

Especially designed to measure the temperature of the exhaust gases of the engines. The pyrometer box is filled with silicon oil serving as a vibration dampener.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagrams A or B

Closing: Ring threaded to case. Sealed by rubber gasket

IP protection: IP65 (EN 60529)

Accuracy: Class 1.6

Temperature limits:

Room temperature: -40+65°C

Fluid overtemperature: maximum 15% end of scale

Max. pressure on stem: 50 bar

Temperature range: +50+650 °C/°F

Sensor element: Bourdon tube (Inert gas expansion)

Stem length (P): 150; 200; 300; 400 mm

Process connection: Sliding on the stem

Threaded connection: ½"BSP, ½"NPT, ¾"BSP, ¾"BSP, M20x150 or M22x150

Antivibration liquid: Silicon oil

Vibration damping system: Rigid

Application:

- Engines
- HVAC

MATERIALS

Case and ring: Black anodized aluminum

Moving parts and bourdon tube: Copper alloy

Threaded connection: AISI 304 Stainless steel

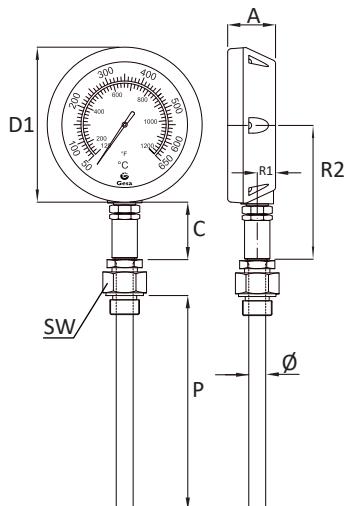
Display: Glass

Dial: White lacquered aluminum

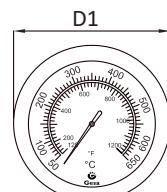
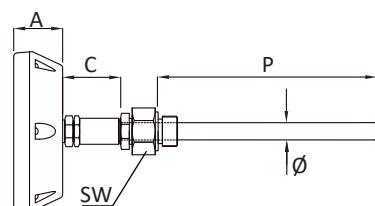
Pointer: Black lacquered aluminum

Stem: AISI 304 Stainless steel

A Bottom



B Back



DIMENSIONS (mm)								WEIGHT (g)			
DN	Mounting	R1	A	D1	Ø	R2	SW	C			
Ø100	A	12	32	118	12	100	27	42	877		
Ø100	B	-	32	118	12	-	27	42	877		

Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
+50+650	+100+600	10	10

How to order

1. Mounting

A

B



2. Stem length (mm)

150

200

300

400



3. Threaded connection

½"BSP

½"NPT

¾"BSP

¾"BSP

M20x150

M22x150 More on demand

4. Connection type

Male

Female

5. Calibration certificate traceable to ENAC

3 points 6 points

4 points 7 points

5 points Without certificate

D23 -

1

2

3

4

5



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D 31

Dial thermometer with capillary in stainless steel



Application:

- Chemical Industry
- Oil industry
- Food
- HVAC
- Cooling

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram C

Closing: Bayonet. Sealed by rubber gasket

IP protection: IP65 (EN 60529)

Accuracy: Class 1.6

Temperature limits:

Room temperature: -40+60°C

Fluid overtemperature: maximum 10% end of scale

Max. pressure on stem: 25 bar. For upper pressures see C0301

Temperature range: 0+120; 0+200; 0+400; +50+650 °C/F

Sensor element: Bourdon tube (Inert gas expansion). Room temperature compensator by bimetallic strip

Capillary length (L): 3; 5; 8 m

Stem length (P): 150; 250 mm

Process connection: Plain Bulb, Sliding on the stem or crazy nut

Threaded connection: 1/2"BSP, 1/2"BSPT, 1/2"NPT, 3/8"BSP, 3/8"BSP, M20x150 or M22x150

Antivibration liquid: Glycerine or dry

Overtemperature relief system: Upper plug

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bourdon tube: Copper alloy

Capillary: AISI 304 Stainless steel

Display: Glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

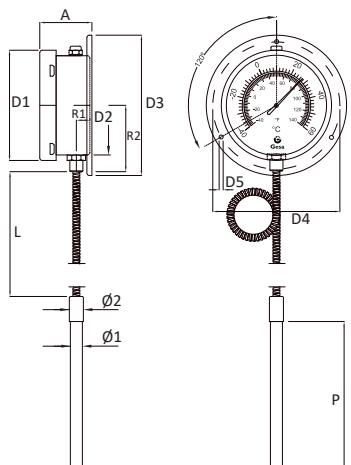
Capillary coating: AISI 316 Stainless steel

Bulb/Stem: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel



C Bottom with back flange



DIMENSIONS (mm)												WEIGHT (g)			Temperature scale according to DIN 16206			
DN	Mounting	A	Ø1	Ø2	R1	R2	D1	D2	D3	D4	D5	L=3m	L=5m	L=8m	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø100	C	52	10	12	14	67	110	100	140	124	4	782	835	1016	0+120 0+200	+20+100 +20+180	2	3
Glycerine +271g															0+400	+50+350	5	8
															+50+650	+100+600	10	10

How to order

1. Temperature range (°C)

0+120 0+200 0+400 +50+650

2. Stem length (mm)

150 250

3. Capillary length (L) in mm

3 5 8

4. Process connection

Crazy nut
Sliding on stem
Plain bulb

5. Threaded connection

1/2" BSP
1/2" BSPT
1/2" NPT
3/8" BSP
M20x150
M22x150
Other threads

6. Connection type

Male
Female

7. Antivibration liquid

Glycerine
Dry

8. Calibration certificate traceable to ENAC

3 points
4 points
5 points
6 points
7 points
Without certificate

D31 -

1	2	3	4	5	6	7	8
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Dial thermometer with capillary in PVC coated stainless steel

D 32



Gas expansion thermometers manufactured according to EN 13190 standard
Reliable tools that withstand extreme working conditions: engine vibration,
humidity and aggressive media such as seawater.

Especially designed to measure temperatures remotely.

STANDARD PARAMETERS

Design: EN 13190.

Mounting: See attached diagram C

Closing: Bayonet. Sealed by rubber gasket

IP protection: IP56 (EN 60529)

Accuracy: Class 1.6

Temperature limits:

Room temperature: -40+60°C

Fluid overtemperature: maximum 10% end of scale

Max. pressure on stem: 25 bar. For upper pressures see C0301

Temperature range: -60+40 °C

Sensor element: Bourdon tube (Inert gas expansion). Room temperature compensator by bimetallic strip

Capillary length (L): 3; 5; 8 m

Stem length (P): 100 mm

Process connection: Plain Bulb, Sliding on the stem or crazy nut

Threaded connection: 1/2"BSP, 1/2"BSPT, 1/2"NPT, 3/8"BSP, 3/8"BSP, M20x150 or M22x150

Overtemperature relief system: Upper plug

Application:

- Chemical Industry
- Oil industry
- Food
- HVAC
- Cooling

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bourdon tube: Copper alloy

Capillary: AISI 304 Stainless steel

Display: Glass

Dial: White lacquered aluminum

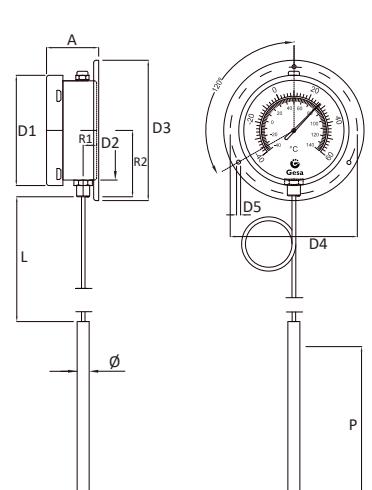
Pointer: Black lacquered aluminum

Capillary coating: PVC

Bulb/Stem: AISI 316 Stainless steel

Threaded connection: AISI 304 Stainless steel

C Bottom with back flange



DIMENSIONS (mm)										WEIGHT (g)			Temperature scale according to DIN 16206				
DN	Mounting	A	Ø	R1	R2	D1	D2	D3	D4	D5	L=3m	L=5m	L=8m	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø100	C	41	8	14	67	110	100	140	124	4	448	483	542	+50+650	+100+600	10	10

How to order

1. Capillary length (L) in mm

3 5 8



2. Process connection

Crazy nut
Sliding on stem
Plain bulb



3. Threaded connection

1/2" BSP 3/8" BSP
1/2" BSPT M20X150
1/2" NPT M22X150
3/8" BSP Other threads

4. Connection type

Male
Female

5. Calibration certificate traceable to ENAC

3 points 6 points
4 points 7 points
5 points Without certificate

D32 -

1	2	3	4	5
---	---	---	---	---



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Dial thermometer with plastic case and copper capillary



Gas expansion thermometers with Bourdon elastic element and an environmental temperature compensator through bimetallic strip.

These simple instruments are especially designed to measure temperatures remotely in cooling and refrigeration chambers.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram B

Closing: Bayonet. Sealed by rubber gasket

IP protection: IP43

Accuracy: Class 2.5

Temperature range: -40+40 or 0+120°C

Sensor element: Bourdon tube (Inert gas expansion). Room temperature compensator by bimetallic strip

Capillary length (L): 1.5m

Stem length (P): 100 mm

Process connection: Plain bulb

MATERIALS

Case and ring: Polyethylene

Moving parts and bourdon tube: Copper alloy

Bulb/stem: Copper alloy

Display: Polyethylene

Dial: Polyethylene

Pointer: Polyethylene

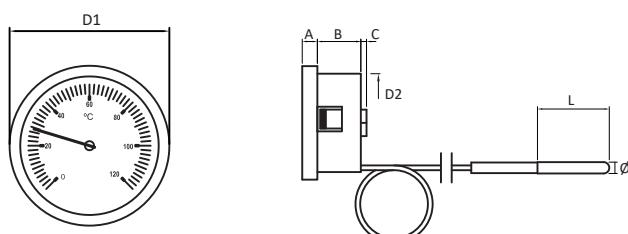
Capillary coating: PVC

Stem: Copper alloy

Application:

- Chemical Industry
- Food
- HVAC
- Cooling

B Back



DIMENSIONS (mm)

WEIGHT (g)

Temperature scale according to DIN 16206

DN	Mounting	A	Ø	B	C	D1	D2	L		Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø50	C	8	6	23	3	58	52	30	57	-40+40	-30+30	1	2
										0+120	+20+100	2	3

How to order

1. Temperature range (°C)

-40+40 0+120

2. Calibration certificate traceable to ENAC

- 3 points 6 points
- 4 points 7 points
- 5 points Without certificate

D33 -

1

2



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D8

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For any oven, especially designed to be placed in the mouth of large furnaces.

Easy installation and handling. Connection via frontal flange, perfect for paneling.

Do not expose to fire directly.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram **B**

Closing: Sealed ring

IP protection: IP56

Accuracy: Class 1.6

Temperature range: 0+600°C

Sensor element: Bimetallic strip

Stem length (L): **100; 150; 200; 300; 400 or 500 mm**

Connection to the furnace/oven: Through frontal flange

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bimetallic stripe: Copper alloy

Display: Glass

Dial: White lacquered aluminum

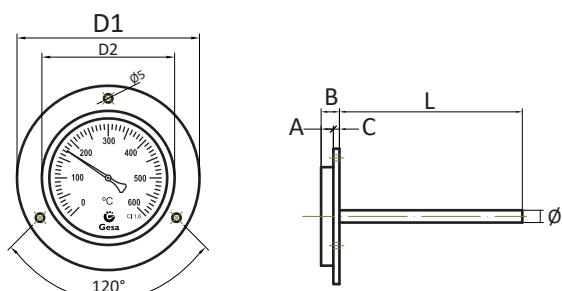
Pointer: Black lacquered aluminum

Stem: AISI 304 Stainless steel

Application:

- Furnaces / Kilns
- Wood fired ovens

B Back



DIMENSIONS (mm)

WEIGHT (g)

Temperature scale according to DIN 16206

DN	Mounting	A	Ø	B	C	D1	D2	L=150mm	L=300m	L=500m	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø100	B	10	8	15	5	110	80	168	214	294	0+600	+50+550	10	10

How to order

1. Stem length in mm (L)

100 200 400
150 300 500



2. Calibration certificate traceable to ENAC

3 points	6 points
4 points	7 points
5 points	Without certificate

D 41 -

1

2



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D 42

Bimetallic thermometer with brass stem and protection sheath for oven



STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram B

Closing: Embedded

IP protection: IP56

Accuracy: Class 1.6

Temperature range: 0+500°C

Sensor element: Bimetallic strip

Stem length (L): 150; 200; 300; 400 or 500 mm

Connection to the furnace/oven: Through protection sheath with 1/2"BSP thread

MATERIALS

Application:
• Furnaces / Kilns
• Wood fired ovens

Case and ring: Zinced steel

Moving parts and bimetallic strip: Copper alloy

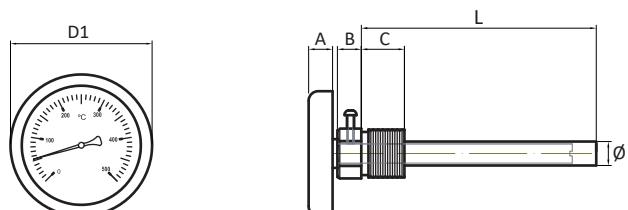
Display: Glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

Stem and protection sheath: Brass

B | Back



DIMENSIONS (mm)

WEIGHT (g)

Temperature scale according to DIN 16206

DN	Mounting	A	Ø	B	C	D1	L=150mm	L=300m	L=500m	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø63	B	10	10	10	18	63	123	142	172	0+500	+50+450	10	10

How to order

1. Stem length in mm (L)

150 300 500
200 400



2. Process connection

Plain bulb
Protection sheath



3 points
4 points

5 points
6 points

7 points
Without certificate



3. Calibration certificate traceable to ENAC

D 42 -

1

2

3



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Especially designed to be placed in oven doors and iron stoves. Does not include protection sheath. It is recommended not to expose the thermometer to fire directly.

Installation is very simple, a way through the door of sufficient diameter is required, once inserted the rod a threaded ring fastens the instrument to the door.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram **B**

Closing: Embedded

IP protection: IP56

Accuracy: Class 1.6

Temperature range: 0+400°C

Sensor element: Bimetallic strip

Stem length (L): 30 mm

Connection to the furnace/oven: Through a threaded nut

MATERIALS

Case and ring: AISI 304 Stainless steel

Moving parts and bimetallic strip: AISI 316 Stainless steel

Display: Glass

Dial: White lacquered aluminum

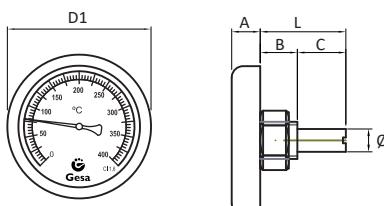
Pointer: Black lacquered aluminum

Stem: AISI 316 Stainless steel

Application:

- Furnaces / Kilns
- Wood fired ovens

B Back



DIMENSIONS (mm)

WEIGHT (g)

Temperature scale according to DIN 16206

DN	Mounting	A	B	D1	Ø	L	SW	C	Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
Ø40	B	10	35	42	8	55	27	20	0+400	+50+350	5	8
Ø50	B	10	13	52	8	30	27	17				

How to order

1. Case diameter

Ø40



Ø50

2. Stem length in mm (L)

55

30



3 points
4 points

5 points
6 points

7 points
Without certificate

3. Calibration certificate traceable to ENAC

D 43 -

1

2

3

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Bimetallic thermometer for oven

This is an oven thermometer in stainless steel with a Ø55mm dial and color coded areas.

The green section indicates the minimum temperature at which should be preserved food trays in the catering sector.

It also has a stand to place it upright and a ring to hang it from oven trays or shelves.

**STANDARD PARAMETERS**

Design: EN 13190

Mounting: See attached diagram

Closing: Embedded

IP protection: IP56

Accuracy: Class 1.6

Temperature range: 0+300°C

Sensor element: Bimetallic strip

Oven placement: Place thermometer in the central area

Weight: 48g

MATERIALS**Application:**

- Kitchen ovens
- Wood fired ovens
- Catering

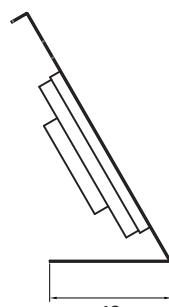
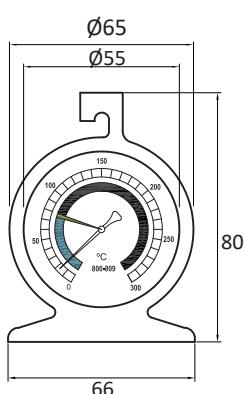
Case and ring: Stainless steel

Moving parts and bimetallic strip: Copper alloy

Display: Glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

DIMENSIONS (mm)**Temperature scale according to DIN 16206**

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
0+300	+50+250	10	10

How to order**1. Calibration certificate traceable to ENAC**

3 points
4 points

5 points
6 points

7 points
Without certificate

D 44 -

1

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Bimetallic thermometer for catering with penetration probe



This thermometer is specifically designed to measure the full range of temperatures in any kitchen. It is useful for restaurants or amateurs to check the right temperature in their cooking processes.

These thermometers needs to be left in place for a few seconds in order to generate a stable reading, it may also be left in place in refrigerators, cold chambers or any controlled environments that requires regular temperature readings. It also includes a protective cover for the probe.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram

Closing: Embedded

IP protection: IP56

Accuracy: Class 1.6

Temperature range: -40+70°C

Sensor element: Bimetallic strip

Weight: 24g

Application:

- Kitchen
- Meat
- Refrigerators

MATERIALS

Case and ring: Stainless steel

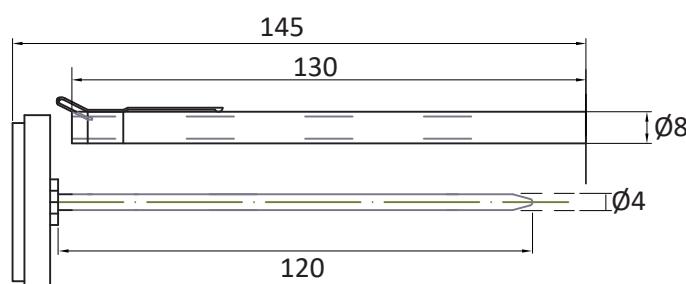
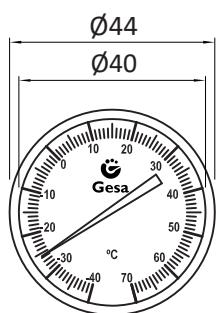
Moving parts and bimetallic strip: Copper alloy

Display: Acrylic

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

DIMENSIONS (mm)



Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
-40+70	-30+60	1	1.5

How to order

1. Calibration certificate traceable to ENAC

3 points

4 points

5 points

6 points

7 points

Without certificate

D 51 -

1



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Thermometer with spring attachment for pipes.

This thermometer can be placed non-invasively in installations making it an effective and versatile control tool.

STANDARD PARAMETERS

Design: EN 13190

Mounting: See attached diagram

Closing: Embedded

IP protection: IP56

Accuracy: Class 2.0

Temperature range: 0+120 or 0+200°C

Sensor element: Bimetallic strip

Weight: 54g

MATERIALS

Application:

- Heating systems
- Piping

Case and ring: Zinced steel

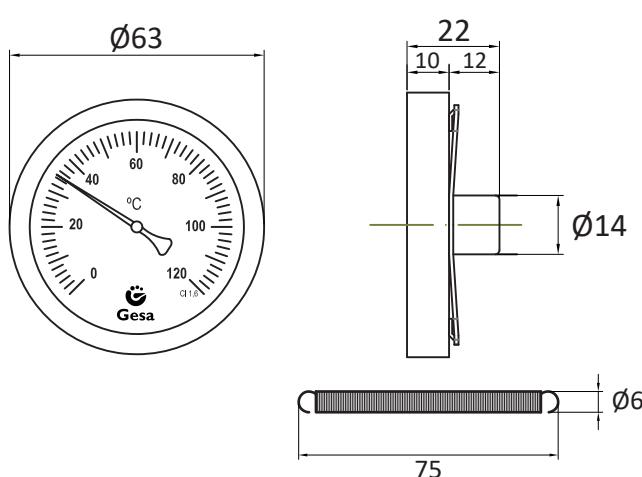
Moving parts and bimetallic strip: Copper alloy

Display: Glass

Dial: White lacquered aluminum

Pointer: Black lacquered aluminum

DIMENSIONS (mm)



Temperature scale according to DIN 16206

Scale printed on the dial (°C)	Working range (°C)	Subdivision °C/line	Maximum error
0+120	20+100	2	1.5
0+200	20+180	5	8

How to order

1. Temperature range (°C)

0+120 0+200

2. Calibration certificate traceable to ENAC



3 points
4 points

5 points
6 points

7 points
Without certificate

D 61 -

1	2
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Milk frothing thermometer for barista

This thermometer for milk or coffee incorporates a dial with a °C/F scale and color coded areas indicating the optimum cooking temperature, this makes them simple and easy to use.

Each thermometer is supplied with a jug mounting probe clip for a perfect fit to jars or any other containers. It also includes a protective cover for the probe.

STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature range: -10 to 110°C

Temperature scale: °C/F

Probe dimensions: Ø4x175mm

Dial diameter: Ø45

MATERIALS

Clip, stem and ring: AISI 304 Stainless steel

Display: Glass

1.Calibration certificate traceable to ENAC

3 points	6 points
4 points	7 points
5 points	Without certificate

800-800 -

1

How to order

Application:

- Cafeteria
- Barista

How to order

Clip thermometer for fryers

This stainless steel thermometer for fryers measures the oil temperature in any type of fryer in a range from 0 to 300°C. Simply insert the thermometer stem into the oil for accurate temperature reading.

The dial is marked with the ideal temperature for frying meat, poultry, fish or chips.



STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature range: 0 to 300°C

Temperature scale: °C

Probe dimensions: Ø4x150mm

Dial diameter: Ø50

MATERIALS

Clip, stem and ring: AISI 304 Stainless steel

Display: Glass

1.Calibration certificate traceable to ENAC

3 points	6 points
4 points	7 points
5 points	Without certificate

800-805 -

1

Application:

- Restaurants
- Cafeteria
- Kitchen

How to order



Poultry oven thermometer

The poultry oven thermometer ensures perfect and precisely cooked poultry. Insert the thermometer into the thickest part of the chicken, turkey or similar (between the thigh and chest) before putting it in the oven.

The poultry will be ready when the dial reaches the green area (+ 85°C).

STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature range: 85°C

Temperature scale: °C

Probe dimensions: Ø4x55mm

Dial diameter: Ø20

MATERIALS

Stem and ring: AISI 304 Stainless steel

Display: Glass

800-850

Application:

- Restaurants
- Kitchen ovens



TEMPERATURA

TEMPÉRATURE

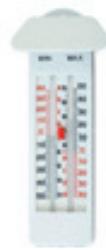
TEMPERATURE

Termómetros analógicos
para diversos usos
Thermomètres analogiques
pour différentes applications
Analog thermometers
for multiple purposes

-  ENAC traceable calibration
-  Compatible with K-type thermocouple probes
-  Compatible with PT100 probes
-  Compatible with Lumberg connectors
-  Measures relative humidity
-  Calculation of average temperature
-  Sound alarm
-  Calculation of differential temperature
-  Memory for maximum and minimum temperature
-  Backlit display
-  Infrared
-  Auto off system for battery saving
-  Folding probe
-  IP protection against ingress of water and dust
-  Timer
-  Automatic screen rotation
-  Suitable for use in food processing
-  Probe included / The number indicates the cable length
-  Antibacterial silver-based additive in plastic housing
-  Fine adjustment to 0.0°C
-  Registration data in the form of graphs and tables
-  Data report generation in PDF
-  The instrument can be used multiple times
-  The instrument is single use



Analogical



Reference: 803-304

Wall room thermometers

Max/min thermometer with adjustable roof

STANDARD PARAMETERS

Sensor element: Liquid expansion

Temperature Range: -40 to 50°C

Scale: Celsius (°C)

Dimensions: 227x90x45mm

MATERIALS

ABS plastic



Application:

- Home
- Outdoor
- Greenhouses
- Cold rooms



Reference: 803-410

Standard wall thermometer

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -30 to 50°C

Scale: Celsius (°C)

Dimensions: 207x55x10mm

MATERIALS

ABS plastic

Application:

- Home
- Outdoor
- Greenhouses
- Cold rooms



Reference: 803-413

Standard wall thermometer

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -30 to 50°C

Scale: Celsius (°C)

Dimensions: 265x66x10mm

MATERIALS

ABS plastic

Application:

- Home
- Outdoor
- Greenhouses
- Cold rooms



Reference: 803-471

Double scale aluminium thermometers

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -10 to 100°C

Scale: Celsius-Fahrenheit (°C/F)

Dimensions: 250x50mm

MATERIALS

Aluminium

Application:

- Home
- Outdoor
- Greenhouses
- Cold rooms
- Saunas



Reference: 803-472

Double scale aluminium thermometers

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -30 to 50°C

Scale: Celsius-Fahrenheit (°C/F)

Dimensions: 250x50mm

MATERIALS

Aluminium

Application:

- Home
- Outdoor
- Greenhouses
- Cold rooms



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Reference: 800-000

Fridge and freezer thermometers

These fridge and freezer thermometers will ensure your fridge or freezer is always at the correct temperature, keeping your food healthy and safe to eat.

Dial fridge or freezer thermometer

STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature Range: -30 to 30°C

Scale: Celsius (°C)

Dimensions: Ø70x60mm

Fixation: hung or free-standing

MATERIALS

Housing: ABS plastic

Application:

- Fridges
- Refrigerators
- Cold rooms


Reference: 800-100

Dial fridge or freezer thermometer

STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature Range: -30 to 30°C

Scale: Celsius (°C)

Dimensions: Ø52mm

Fixation: Hung

MATERIALS

Housing: ABS plastic

Application:

- Fridges
- Refrigerators
- Cold rooms


Reference: 800-923

Dial fridge or freezer thermometer

STANDARD PARAMETERS

Sensor element: Bimetallic strip

Temperature Range: -30 to 30°C

Scale: Celsius (°C)

Dimensions: Ø50x60mm

Fixation: hung or free-standing

MATERIALS

Housing: Stainless steel AISI 304

Application:

- Fridges
- Refrigerators
- Cold rooms


Reference: 803-925

Double scale fridge thermometer

STANDARD PARAMETERS

Sensor element: Liquid expansion

Temperature Range: -40 to 20°C

Scale: Celsius-Fahrenheit (°C/F)

Dimensions: 122x30x20mm

Fixation: Hung

MATERIALS

Housing: ABS plastic and Stainless steel fixations

Application:

- Fridges
- Refrigerators
- Cold rooms





Reference: 803-795

Thermometers for different applications

Soil thermometer

This thermometer is specifically designed to measure soil temperature. The housing design makes it easy to insert and protects it from dirt.

This thermometer needs to be left in place for a few seconds in order to generate a stable reading.

A regular wipe down is recommended in order to remove any debris that may have adhered.

STANDARD PARAMETERS

Sensor element: Liquid expansion (red alcohol)

Temperature Range: -10 to 110°C

Scale: Celsius (°C)

Dimensions: Ø10x30mm

MATERIALS

Housing: ABS plastic

Application:

- Greenhouses
- Crops
- Climatology



Reference: TPISCF 0-50

Thermometer for pools and fish farms

Floating thermometer to adequate water temperature in pools, ponds and fish farms.

It also includes a string that allows it to be tied in a fixed position or to recover it from distance measurements.

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: 0 to 50°C / 30 to 120°F

Scale: Celsius-Fahrenheit (°C/F)

Dimensions: Ø50x60mm

MATERIALS

Housing: ABS plastic

Application:

- Pools
- fish farms



Reference: W0101FUNDA

Solid-stem thermometer with stainless steel pocket

Solid stem glass thermometers protected by a stainless steel sheath with a ring at the upper side for hanging.

This thermometer is still the choice of most reliable for measuring the temperature in liquids such as water or others of a more corrosive nature.

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -40 to 40 / -10 to 110 / -10 to 80°C

Scale: Celsius (°C)

Glass insert: Ø6x150mm

Pocket length: Ø10x170mm

MATERIALS

Rod: Glass

Sheath: Stainless steel AISI 304

Application:

- Conditioning
- Refrigeration
- Hiking
- Naval engine



Reference: F010144CAJAULA

Thermometer for wort and dairies

This glass thermometer with opal scale is ideal for its use in must factories or dairies. The thermometer has a protective wire cage with a hanging ring.

STANDARD PARAMETERS

Sensor element: Liquid expansion (blue alcohol)

Temperature Range: -40 to 40

Scale: Celsius (°C)

Glass insert: Ø6x150mm

Sheath length: Ø30x350mm

MATERIALS

Rod: Glass

Sheath: Wire

Scale: Opal

Application:

- Wort
- Dairies





Opal scale thermometers

Thermometer for fish

Long operational life without maintenance, its spiky finishing allows you to measure temperatures in fish or other foods.

STANDARD PARAMETERS

Sensor element:	Liquid expansion
Temperature Range:	-10 to 60°C / -40 to 40°C / 0 to 100°C
Scale:	Celsius (°C)
Sheath dimensions:	Ø16x165mm
Opal scale dimensions:	Ø11x140mm
Rod dimensions:	Ø3x90mm
Weight:	94g

Application:

- Frozen food

Reference: B-170



Oil tank thermometer

Glass thermometer with opal scale, brass protection shath and upper clamp ring. The sheath can be easily disassembled to replace the rod in case of break. Its rugged construction makes it durable and its simplicity prevents costly maintenance.

The deposit allows sample collection and thus remote reading.

The different temperature ranges make this instrumnt useful for a wide variety of applications such as frigorific chambers, naval engines, HVAC, etc.

STANDARD PARAMETERS

Sensor element:	Liquid expansion
Temperature Range:	-10 to 60°C / -40 to 40°C / 0 to 100°C/F
Scale:	Celsius(°C) or Celsius-Fahrenheit (°C/F)
Sheath dimensions:	Ø22x250mm
Opal scale dimensions:	Ø18x190mm
Rod stem dimensions:	Ø7x50mm
Weight:	200g

Application:

- Liquid samples
- Tanks
- Seawater

Reference: Petrolero



Opal scale thermometer with brass sheath

Glass thermometer with opal scale, brass protection sheath and upper clamp ring. The sheath can be easily disassembled to replace the rod in case of break. Its rugged construction makes it durable and its simplicity prevents costly maintenance.

The different temperature ranges make this instrumnt useful for a wide variety of applications such as frigorific chambers, naval engines, HVAC, etc.

STANDARD PARAMETERS

Sensor element:	Liquid expansion
Temperature Range:	-10 to 60°C / -40 to 40°C / 0 to 100°C/F
Scale:	Celsius(°C) or Celsius-Fahrenheit (°C/F)
Sheath dimensions:	Ø22x250mm
Opal scale dimensions:	Ø18x190mm
Rod stem dimensions:	Ø7x50mm
Weight:	190g

Application:

- Tanks
- Cold rooms

Reference: B-175



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MEDIDORES DIGITALES COMPTEURS DIGITAUX DIGITAL INSTRUMENTS

Registradores de datos /
Dataloggers

Enregistreurs de données
Dataloggers


Reference: Tempmate M1

Dataloggers Tempmate®

Multi-Use temperature Datalogger Tempmate® M1

Designed to control the temperature in fixed locations such as warehouses, cold stores and industrial freezers.

It is also useful for monitoring the cold chain shipments sensitive to temperature changes such as pharmaceuticals, vaccines or food. The instrument incorporates USB port and generates automatic reports in PDF or Excel datasheet.

STANDARD PARAMETERS

Measuring range: -30 to 70°C / -22 to 158°F Scale: Celsius-Fahrenheit (°C/F)

Sensor element: NTC internal sensor

Response time: 11 minutes

Resolution: 0.1°C / °F

Accuracy: ±0.5°C / ±0.9°F (-20 to 40°C)

Recording interval: Programmable from 10 seconds to 24 hours

Recording time: Programmable up to 12 months (depending on Recording interval)

Memory: 32.000 readings

Alarm type: Simple / Cumulative

Alarm range: Adjustable up to 5 alarm limits

IP protection: IP67

Battery: 1x 3 volts CR2032 lithium coin cell (Replaceable)

Battery life: 1 year (continuous use)

Dimensions: 80x34x14mm Weight: 25g

Data report: Autogenerated PDF or Excel (requires PDF reader or TempBase software)

PC connection: USB connector

Software: TempBase

MATERIALS

Accessories

Housing: ABS plastic

Display: LCD

Application:

- Laboratories
- Cold storage
- Cold chain
- Pharmaceuticals


Reference: TSN100

External probe -40 to 90°C

This external probe with NTC sensor and range of -40 to 90°C reduces the response time of the M1 datalogger to just 30 seconds. Besides its 1-meter wire allows for distance measurements.


Reference: ACB100

Magnetic wall bracket

This support includes two magnets to adhere to metal surfaces and two screws enabling their fastening in any non-metal surface.


Reference: Tempmate S1

Single use temperature Datalogger Tempmate® S1

Designed to preserve the integrity of the cold chain. It monitors the temperature of goods from the supplier warehouses to the customer's.

The instrument incorporates USB port and generates automatic reports in PDF.

STANDARD PARAMETERS

Measuring range: -30 to 70°C / -22 to 158°F Scale: Celsius-Fahrenheit (°C/F)

Sensor element: NTC internal sensor

Resolution: 0.1°C / °F

Accuracy: ±0.5°C / ±0.9°F (-20 to 40°C)

Recording interval: 1 minute

Recording time: 10 days

Memory: 16.000 readings

Alarm type: Simple / Cumulative

Alarm range: Adjustable up to 5 alarm limits

IP protection: IP67 / NEMA 6

Battery: 1x CR2450 button cell (not replaceable)

Shelf life: 2 year

Dimensions: 83x47x7mm Weight: 14.6g

Data report: Autogenerated PDF (requires PDF reader)

PC connection: USB connector

MATERIALS

Housing: ABS plastic

Display: LED

Application:

- Transport
- Cold storage
- Cold chain
- Pharmaceuticals



MEDIDORES DIGITALES COMPTEURS DIGITAUX DIGITAL INSTRUMENTS

Temperatura y humedad /
Termohigrómetros
Température et humidité /
Thermo-Higromètres
Temperature and Humidity /
Therma- Hygrometer

Thermometer-Hygrometer with external sensor

Digital wall thermometers designed to measure temperature and humidity conditions in spaces regulated by the Royal Decree RD 1826/2009.

They are instruments that also show the measured values of humidity of the air, therefore also fulfills the Hygrometer function.

Includes mounting bracket with two-point anchor and external probe.

STANDARD PARAMETERS

Design: RD 1826/2009

IP protection: IP50

Range: -40+85°C / 0 to 100% RH

Accuracy: ±0.5°C / ±3% (from 20 to 80%) ±5% rest of the range

Resolution: Temperature: 3 digits / Humidity: 2 digits

Digit height: 127mm

Vision angle: 120°

Reading distance: 75m

Connection: Power supply 100-240VAC (1.5m cable with plug)

Weight: 5.4Kg



Application:

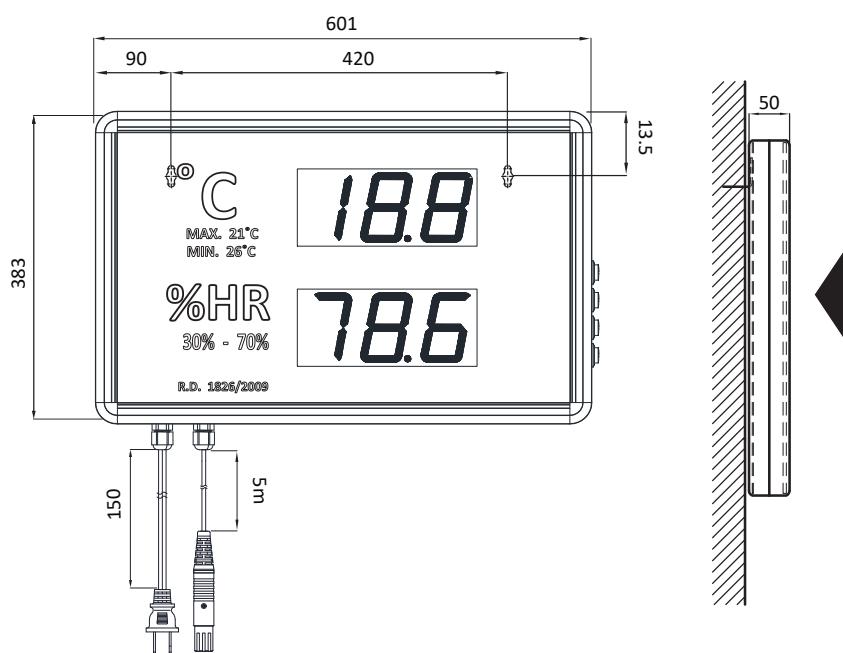
- Airports
- Malls
- Waiting rooms
- Stores

MATERIALS

Frame: Steel

Display: Polymethyl methacrylate 5mm thick

DIMENSIONS (mm)



How to order

1. Calibration certificate traceable to ENAC

3 points
4 points

5 points
6 points

7 points



GF250A -

1

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Thermometer-Hygrometer with communications



Application:

- Airports
- Malls
- Waiting rooms
- Stores

Digital wall thermometers designed to measure temperature and humidity conditions in spaces regulated by the Royal Decree RD 1826/2009

They are instruments that also show the measured values of humidity of the air, therefore also fulfills the Hygrometer function

Includes mounting bracket with anchor in four points and data acquisition software. The external probe is necessary for the operation of the system

With system for direct connection to LAN

STANDARD PARAMETERS

Design: RD 1826/2009

IP protection: IP20

External sensor accuracy: -30+70°C / 0 to 99% HR

Internal sensor accuracy: ±0.5°C / ±3% (from 20 to 80%) ±5% rest of the range

Resolution: 3 digits / 2 digits

Digit height: 100mm

Vision angle: 120°

Reading distance: 40m

Connection: Power supply 230VAC (2m wire with plug)

Consumption: 6.5W

Weight: 3Kg

MATERIALS

Frame: Anodized aluminum

Display: Polymethyl methacrylate 5mm thick

OPTIONS

TS-STH2

Probe for interior. Wall box with LCD screen and 4.5m of RS485 cable



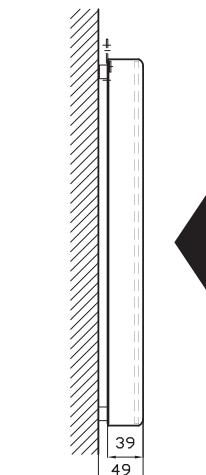
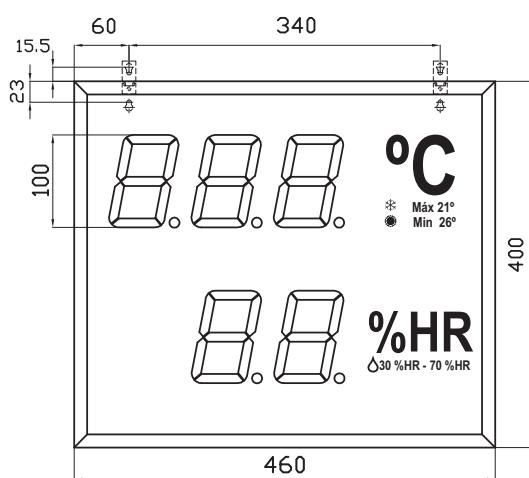
Range	-30+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications interface	RS485
Communications protocol	TCP / IP

TS-STH6

Probe with IP54 wall box and 5m RS485 wire



Range	-35+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications Interface	RS485
Communications protocol	TCP / IP



How to order

1. Sensor type

- Internal sensor*
- External sensor



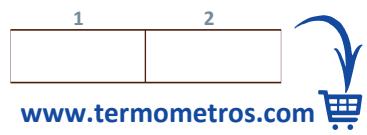
2. Calibration certificate traceable to ENAC

- | | | |
|----------|----------|----------|
| 3 points | 5 points | 7 points |
| 4 points | 6 points | |

*The model with internal sensor is not calibrable



IN-2DP-



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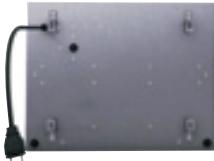
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Thermometer-Hygrometer with internal sensor



Application:

- Airports
- Malls
- Waiting rooms
- Stores

STANDARD PARAMETERS

Design: RD 1826/2009

IP protection: IP20

Range: -30+70°C / 0 to 99% HR

Accuracy: ±0.4°C / ±3% (from 20 to 80%) ±5% rest of the range

Resolution: 3 digits / 2 digits

Digit height: 100mm

Vision angle: 120°

Reading distance: 40m

Connection: Power supply 230VAC (2m wire with plug)

Consumption: 6.5W

Weight: 3Kg

MATERIALS

Frame: Anodized aluminum

Display: Polymethyl methacrylate 5mm thick

OPTIONS

TS-STH2

Probe for interior. Wall box with LCD screen and 4.5m of RS485 cable



Range	-30+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications interface	RS485
Communications protocol	TCP / IP

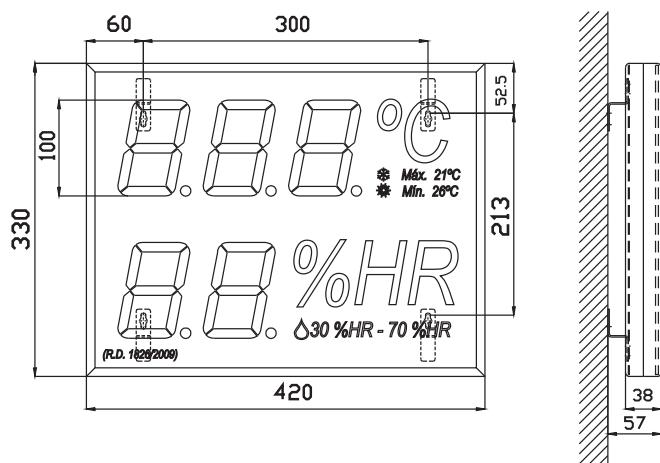
TS-STH6

Probe with IP54 wall box and 5m RS485 wire



Range	-35+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications Interface	RS485
Communications protocol	TCP / IP

DIMENSIONS (mm)



How to order

1. Probe type

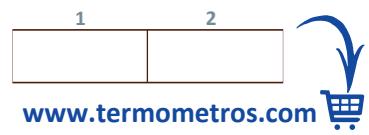
- TS-TH6
- TS-TH2

2. Calibration certificate traceable to ENAC

- 3 points
- 4 points
- 5 points
- 6 points
- 7 points



IN-2TH-



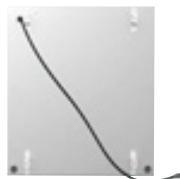
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Thermometer-Hygrometer with time and date



Application:

- Airports
- Malls
- Waiting rooms
- Stores

Digital wall thermometers designed to measure temperature and humidity conditions in spaces regulated by the Royal Decree RD 1826/2009

They are instruments that also show the measured values of humidity of the air, therefore also fulfills the Hygrometer function

Includes mounting bracket with anchor in four points and data acquisition software. The external probe is necessary for the operation of the system

Every 5 seconds automatic change between time and date, includes remote control for setting Date and time

STANDARD PARAMETERS

Design: RD 1826/2009

IP protection: IP20

Range: 0+50°C / 25 to 95% HR

Accuracy: ±0.5°C / ±3% (from 20 to 80%) ±5% rest of the range

Resolution: 3 digits / 2 digits

Digit height: 100mm

Vision angle: 120°

Reading distance: 40m

Connection: Power supply 230VAC (2m wire with plug)

Consumption: 6.5W

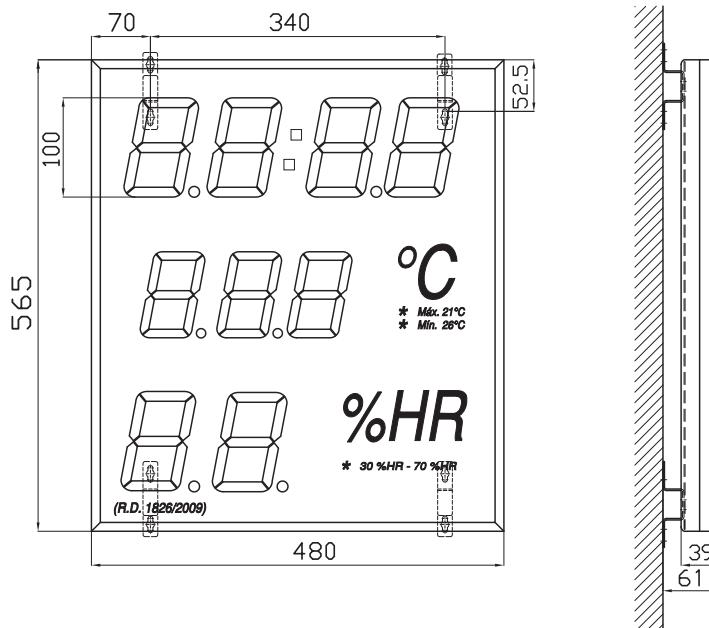
Weight: 3Kg

MATERIALS

Frame: Anodized aluminum

Display: Polymethyl methacrylate 5mm thick

DIMENSIONS (mm)



OPTIONS

TS-STH2

Probe for interior. Wall box with LCD screen and 4.5m of RS485 cable



Range	-30+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications interface	RS485
Communications protocol	TCP / IP

TS-STH6

Probe with IP54 wall box and 5m RS485 wire



Range	-35+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications Interface	RS485
Communications protocol	TCP / IP

How to order

1. Probe type

- TS-TH6
- TS-TH2

2. Calibration certificate traceable to ENAC

- | | | |
|----------|----------|----------|
| 3 points | 5 points | 7 points |
| 4 points | 6 points | |



IN-3DP-

1	2
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Thermometer-Hygrometer multi-zone



Application:

- Airports
- Malls
- Waiting rooms
- Stores

Digital wall thermometers designed to measure temperature and humidity conditions in spaces regulated by the Royal Decree RD 1826/2009.

They are instruments that also show the measured values of humidity of the air, therefore also fulfills the Hygrometer function.

Includes mounting bracket with anchor in four points and data acquisition software. The external probe is necessary for the operation of the system.

Automatic zone change every 5 seconds

STANDARD PARAMETERS

Design: RD 1826/2009

IP protection: IP20

Range: 0 to 50°C / 25 to 95% HR

Accuracy: ±0.5°C / ±3% (from 20 to 80%) ±5% rest of the range

Resolution: 3 digits / 2 digits

Digit height: 100mm

Vision angle: 120°

Reading distance: 40m

Connection: Power supply 230VAC (2m wire with plug)

Consumption: 6.5W

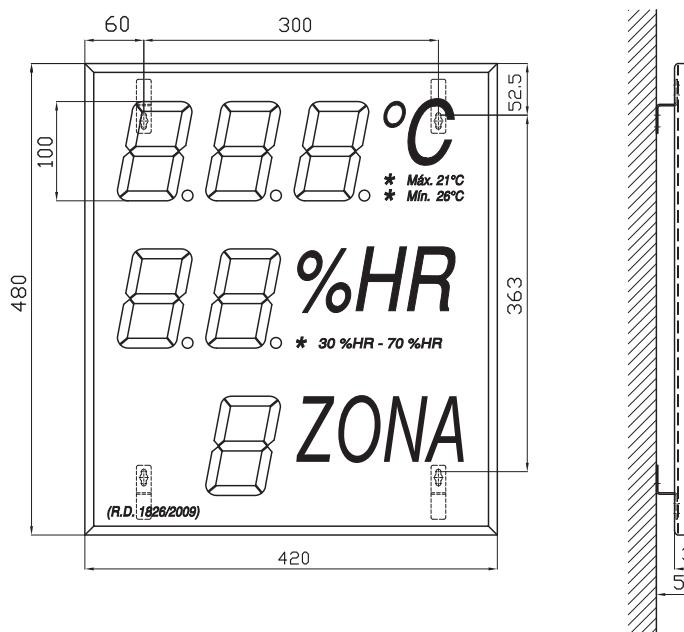
Weight: 3Kg

MATERIALS

Frame: Anodized aluminum

Display: Polymethyl methacrylate 5mm thick

DIMENSIONS (mm)



OPTIONS

TS-STH2

Probe for interior. Wall box with LCD screen and 4.5m of RS485 cable



Range	-30+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications interface	RS485
Communications protocol	TCP / IP

TS-STH6

Probe with IP54 wall box and 5m RS485 wire



Range	-35+70°C / 20-95%
Accuracy	±0.4°C / ±3%
Communications Interface	RS485
Communications protocol	TCP / IP

How to order

1. Probe type

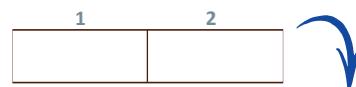
- TS-TH6
- TS-TH2

2. Calibration certificate traceable to ENAC

- | | | |
|----------|----------|----------|
| 3 points | 5 points | 7 points |
| 4 points | 6 points | |



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Probes

Probe with backlit display



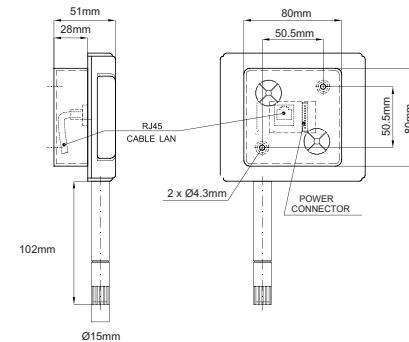
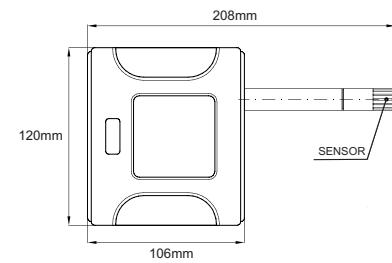
TS digital indicators have a removable probe. This represents a saving in case of needing a replacement both of digital screen and sensor.



Ref: TS-STH2



Temperature range	-30 to 70°C
Humidity Range	5 to 95% RH
Accuracy	±0.4°C / ±3%
Communications interface	RS485
Communications protocol	MODBUS RTU
Supply voltage	9 ~ 24 VDC
Probe wire	4.5 meters



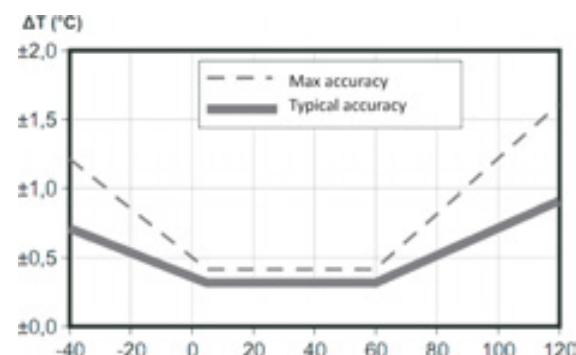
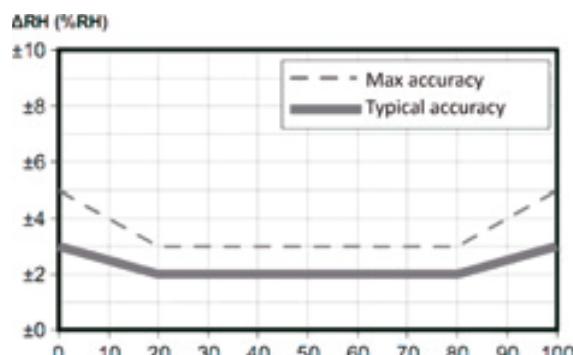
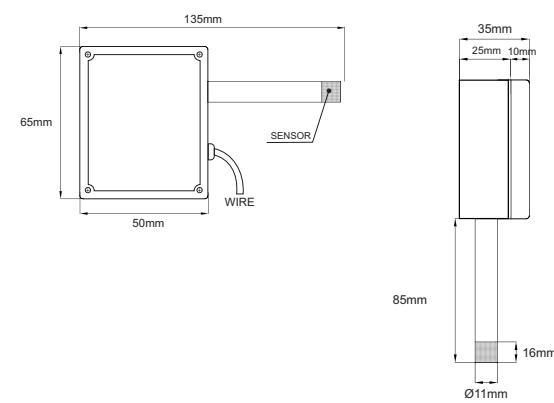
Probe with IP54 wall box and 5m RS485 wire

TS digital indicators have a removable probe. This represents a saving in case of needing a replacement both of digital screen and sensor.



Ref: TS-STH6

Temperature range	-35 to 70°C
Humidity Range	1 to 99% RH
Accuracy	See graphs below
Communications interface	RS485
Communications protocol	TCP / IP
Supply voltage	9 ~ 24 VDC
Probe wire	5 meters



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Reference: 810-145

Max / Min Therma-Hygrometer

Therma-hygrometer with dual LCD screen that simultaneously displays temperature and humidity readings displayed and recorded maximum and minimum. A rear folding stand and slot allow placement in both flat surfaces and walls.

STANDARD PARAMETERS

Sensor element (Temperature / Humidity): Thermistor / Capacitor

Measuring range (Temp. / Hum.): 0 to 50°C / 10 to 99%rh

Scale (Temp. / Hum.): Celsius-Fahrenheit (°C/F) / Relative humidity

Resolution (Temp. / Hum.): 0.1°C / 1%

Accuracy (Temp. / Hum.): ±1°C / ±5%

Battery: 1x1.5 volts AAA

Battery life: 10.000 hours

Dimensions: 20x100x110mm

Weight: 135g

MATERIALS

Housing: ABS plastic

Display: LCD Dual

Application:

- Control
- Storage
- Greenhouse
- Domestic use



*Temperature only calibration



Reference: 810-140

Max / Min Therma-Hygrometer with external probe

Therma-hygrometer with dual LCD screen that simultaneously displays temperature and humidity readings displayed and recorded maximum and minimum. It also includes an external 3m cable probe. A rear folding stand and slot allow placement in both flat surfaces and walls

STANDARD PARAMETERS

Sensor element (Temperature / Humidity): Thermistor / Capacitor

Measuring range internal sensor: 0 to 50°C

Measuring range external probe (Temp. / Hum.): -20 to 70°C / 10 to 99%rh

Scale (Temp. / Hum.): Celsius-Fahrenheit (°C/F) / Relative humidity

Resolution (Temp. / Hum.): 0.1°C / 1%

Accuracy (Temp. / Hum.): ±1°C / ±5%

Battery: 1x1.5 volts AAA

Battery life: 10.000 hours

Dimensions: 20x100x110mm

Weight: 170g

MATERIALS

Housing: ABS plastic

Display: LCD Dual

Application:

- Control
- Storage
- Cold chambers
- Greenhouse
- Domestic use



*Temperature only calibration



Reference: 810-155

Therma-Hygrometer with Max / Min & alarm functions

Therma-hygrometer with dual LCD displays the current indoor temperature and humidity. It records minimum and maximum that can activate the audible alarm. It also incorporates a foldable stand for flat surfaces and a slot for hanging on the wall. The alarm is activated when the external probe temperature goes under 0°C, this feature is ideal to warn of freeze danger in sectors such as horticulture and the like. Each unit is supplied with a probe with a 3-meter PVC wire that can be mounted onto any wall using the suction pad

STANDARD PARAMETERS

Sensor element (Temperature / Humidity): Thermistor / Capacitor

Measuring range internal sensor: 0 to 49.9°C

Measuring range external probe (Temp. / Hum.): -49.9 to 69.9°C / 20 to 99%rh

Scale (Temp. / Hum.): Celsius-Fahrenheit (°C/F) / Relative humidity

Resolution (Temp. / Hum.): 0.1°C / 1%

Accuracy (Temp. / Hum.): ±1°C / ±5%

Battery: 1x1.5 volts AAA

Battery life: 10.000 hours

Dimensions: 20x65x97mm

Weight: 78g

MATERIALS

Housing: ABS plastic

Display: LCD Dual

Application:

- Control
- Storage
- Cold chambers
- Greenhouse
- Domestic use



*Temperature only calibration



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Reference: 810-180

Therma-hygrometer

Max / Min Therma-Hygrometer for panel mounting

Therma-hygrometer with dual LCD display ideal for OEMs for installing into equipment, i.e. vivariums, egg hatcheries and similar. The instrument can be panel mounted via a minimum Ø33mm cutout, it incorporates a screw clamp with a maximum panel thickness of 7 mm.

STANDARD PARAMETERS

Sensor element (Temperature / Humidity):	/ Capacitor
Measuring range (Temp. / Hum.):	0 to 49.9°C / 20 to 99%rh
Scale (Temp. / Hum.):	Celsius-Fahrenheit (°C/F) / Relative humidity
Resolution (Temp. / Hum.):	0.1°C / 1%
Accuracy (Temp. / Hum.):	±1°C / ±5%
Battery:	1x 3 volts CR2032 lithium coin cell
Battery life:	5.000 hours
Dimensions:	Ø50x41mm
Weight:	42g

MATERIALS

Housing:	ABS plastic	Display:	LCD Dual
----------	-------------	----------	----------

Application:

- Control
- Storage
- Greenhouse
- Vivarium
- Egg hatcheries



*Temperature only calibration



Reference: 810-190

Pen-shaped pocket therma-hygrometer

Easy to use pocket digital therma-hygrometer with dual LCD display that shows temperature and humidity readings simultaneously. It also records minimum and maximum temperatures. The instrument incorporates a clip on the back to hold it in any position.

STANDARD PARAMETERS

Sensor element (Temperature / Humidity):	Silicone bandgap / Capacitor
Measuring range (Temp. / Hum.):	0 to 49.9°C / 20 to 95%rh
Scale (Temp. / Hum.):	Celsius-Fahrenheit (°C/F) / Relative humidity
Resolution (Temp. / Hum.):	0.1°C / 1%
Accuracy (Temp. / Hum.):	±1°C / ±5%
Battery:	1x1.5 volts AAA
Battery life:	6.000 hours
Dimensions:	20x23x138mm
Weight:	35g

MATERIALS

Housing:	ABS plastic	Display:	LCD Dual
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Application:

- Control
- Storage
- Greenhouse



*Temperature only calibration



Reference: 810-195

Therma-Hygrometer with Max / Min & alarm functions

Digital therma-hygrometer with dual LCD screen that simultaneously displays temperature and humidity readings. It records and displays maximum and minimum temperatures. It also includes an external probe with a 3 meter cable. The alarm is activated when the external probe temperature goes under 0°C, this feature is ideal to warn of freeze danger in sectors such as horticulture and the like. A rear folding stand allows for placement on flat surfaces.

STANDARD PARAMETERS

Sensor element (Temperature / Humidity):	Silicone bandgap / Capacitor
Measuring range internal sensor:	0 to 49.9 °C
Measuring range external probe (Temp. / Hum.):	-49.9 to 69.9°C / 20 to 98%rh
Scale (Temp. / Hum.):	Celsius-Fahrenheit (°C/F) / Relative humidity
Resolution (Temp. / Hum.):	0.1°C / 1%
Accuracy (Temp. / Hum.):	±1°C / ±5%
Battery:	1x1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	18x41x76mm
Weight:	85g

MATERIALS

Housing:	ABS plastic	Display:	LCD Dual
----------	-------------	----------	----------

Application:

- Control
- Storage
- Greenhouse



*Temperature only calibration



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Infrared Thermometers

Infrared Thermometers

Infrared thermometer up to 380°C

Easy-to-use trigger thermometer, for temperature measurements in hazardous or inaccessible areas such as motors, electrical connections, kitchen surfaces and many other applications.



Reference: IT-380C

STANDARD PARAMETERS

Measuring range:	-50 to 380°C	Scale:	Celsius-Fahrenheit (°C/F)
Emissivity:	0.95	Field of view:	12:1
Resolution:	0.1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	1x 9 volts PP3 alkaline	Battery life:	2 years
Dimensions:	153x100x43mm	Weight:	148g
Accuracy:	±1.5°C (0 to 380°C)	±3°C (-50 to 0°C)	

MATERIALS

Housing:	Plastic	Display:	LCD 9mm
----------	---------	----------	---------

Application:

- Laboratories
- Industrial



Infrared thermometer up to 550°C

Easy-to-use trigger thermometer, for temperature measurements in hazardous or inaccessible areas such as motors, electrical connections, kitchen surfaces and many other applications.



Reference: IT-550C

STANDARD PARAMETERS

Measuring range:	-50 to 500°C	Scale:	Celsius-Fahrenheit (°C/F)
Emissivity:	0.95	Field of view:	12:1
Resolution:	0.1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	1x 9 volts PP3 alkaline	Battery life:	2 years
Dimensions:	153x100x43mm	Weight:	148g
Accuracy:	±1.5°C (0 to 500°C)	±3°C (-50 to 0°C)	

MATERIALS

Housing:	Plastic	Display:	LCD 9mm
----------	---------	----------	---------

Application:

- Laboratories
- Industrial furnaces
- Foundry



Infrared thermometer up to 900°C

High range easy-to-use trigger thermometer, for temperature measurements in hazardous or inaccessible areas such as motors, electrical connections, kitchen surfaces and many other applications.



Reference: IT-900C

STANDARD PARAMETERS

Measuring range:	-50 to 900°C	Scale:	Celsius-Fahrenheit (°C/F)
Emissivity:	0.95	Field of view:	12:1
Resolution:	0.1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	1x 9 volts PP3 alkaline	Battery life:	2 years
Dimensions:	175x100x49mm	Weight:	220g
Accuracy:	±1.5°C (0 to 900°C)	±3°C (-50 to 0°C)	

MATERIALS

Housing:	Plastic	Display:	LCD 9mm
----------	---------	----------	---------

Application:

- Laboratories
- Industrial furnaces
- Foundry



Infrared thermometer up to 2200°C

High range easy-to-use trigger thermometer, for temperature measurements in hazardous or inaccessible areas such as motors, electrical connections. It includes power cord for long-term measurements. Wire connection to computer and software also included.



Reference: IT-2200C

STANDARD PARAMETERS

Measuring range:	200 to 2200°C	Scale:	Celsius-Fahrenheit (°C/F)
Emissivity:	Adjustable from 0.1 to 1	Field of view:	80:1
Resolution:	0.1°C	Working conditions:	0 to 40°C/ 10 to 80% HR
Battery:	1x 9 volts PP3 alkaline	Battery life:	3 years
Dimensions:	220x134x60mm	Weight:	480g
Accuracy:	±2°C (200 to 450°C)	±3°C (450 to 1100°C)	±4°C other

MATERIALS

Housing:	Plastic	Display:	LCD 9mm
----------	---------	----------	---------

Application:

- Laboratories
- Industrial furnaces
- Foundry





Reference: 814-040

Raytemp 3 Infrared thermometer

Compact, lightweight and easy to use. Ideal for measuring temperatures while avoiding the need for contact. The backlit display shows the maximum temperature, it turns off after 15 seconds, maximizing battery life.

STANDARD PARAMETERS

Measuring range:	-60 to 500°C	Scale:	Celsius-Fahrenheit (°C/F)
Emissivity:	0.97	Field of view:	12:1
Resolution:	0.1°C (-9.9 to 199.9°C) or 1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	2x 1.5 volts AAA	Battery life:	140 hours (continuous use)
Dimensions:	40x66x155mm	Weight:	180g
Accuracy:	±1°C (0 to 65°C) other ±2% or ±2°C highest value		

MATERIALS

Housing:	ABS plastic	Display:	LCD 9mm
----------	-------------	----------	---------

Application:

- Laboratories
- Industrial
- Catering



Reference: 814-045

Raytemp 8 Infrared thermometer

Compact, lightweight and easy to use. Includes plug for type K thermocouple probes. It calculates the difference between minimum and maximum temperature and also the average. The backlit display turns off after 60 seconds, maximizing battery life.

STANDARD PARAMETERS

Measuring range infrared:	-60 to 500°C	Scale:	Celsius-Fahrenheit (°C/F)
Measuring range probe:	-64 to 1370°C (probe not included)		
Accuracy IR:	±2°C or ±2% highest value	Accuracy probe:	±1°C or ±1% highest value
Emissivity:	Adjustable from 0.1 to 1	Field of view:	12:1
Resolution:	0.1°C (-9.9 to 199.9°C) or 1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	2x 1.5 volts AAA	Battery life:	180 hours (continuous use)
Dimensions:	40x66x155mm	Weight:	185g

MATERIALS

Housing:	ABS plastic	Display:	LCD 9mm
----------	-------------	----------	---------

Application:

- Laboratories
- Industrial
- Catering



Reference: 814-038

Raytemp 38 Infrared thermometer

Professional instrument to measure small areas at large distances. With dual laser pointer for increased accuracy. The audible alarm can use programmable temperature monitorings. The backlit display shows maximum and minimum temperatures, difference between the two and average temperature; it turns off after 60 seconds, maximizing battery life.

STANDARD PARAMETERS

Measuring range:	-59.9 to 999.9°C	Scale:	Celsius-Fahrenheit (°C/F)
Measuring range probe:	-64 to 1370°C (probe not included)		
Accuracy IR:	±2°C or ±2% highest value	Accuracy probe:	±1°C or ±1% highest value
Emissivity:	Adjustable from 0.1 to 1	Field of view:	50:1
Resolution:	0.1°C	Working conditions:	0 to 40°C/ 10 to 95% HR
Battery:	2x 1.5 volts AAA	Battery life:	180 hours (continuous use)
Dimensions:	47x170x240mm	Weight:	395g

MATERIALS

Housing:	ABS plastic	Display:	LCD 9mm
----------	-------------	----------	---------

Application:

- Laboratories
- Industrial
- Catering



Reference: 814-050

Magnetic bracket for Raytemp 38

The magnetic support allows fastening instrument in any position on metal surfaces.



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Termómetros digitales
Thermomètres numériques
Digital thermometers

Max / Min Thermometers

Max / Min Thermometer

Thermometer digital room with large screen that simultaneously displays current temperature, maximum and minimum. Its design makes it ideal to place on all surfaces and in extreme environmental conditions.



Reference: 810-100

STANDARD PARAMETERS

Sensor element: Thermistor

Measuring range: -49.9 to 69.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1°C

Accuracy: ±1°C

Battery: 1x 1.5 volts AAA

Battery life: 4.000 hours

Dimensions: 30x50x180mm

Weight: 92g

MATERIALS

Housing: ABS plastic

Display: LCD

Application:

- Cold chambers
- Storage
- Greenhouse
- Domestic use



Reference: 810-225

STANDARD PARAMETERS

Sensor element: Thermistor

Measuring range: -49.9 to 69.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1°C

Accuracy: ±1°C

Battery: 1x 3 volts CR2032 lithium coin cell

Battery life: 3.000 hours

Dimensions: 16x50x82mm

Weight: 50g

MATERIALS

Housing: ABS plastic

Display: LCD

Application:

- Cold chambers
- Fridges
- Freezers



Reference: 810-210

STANDARD PARAMETERS

Sensor element: Thermistor

Measuring range: -49.9 to 69.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1°C

Accuracy: ±1°C

Battery: 1x 1.5 volts AAA

Battery life: 5.000 hours

Dimensions: 15x52x73mm

Weight: 48g

MATERIALS

Housing: ABS plastic

Display: LCD

Application:

- Cold chambers
- Fridges
- Freezers



Alarm thermometers

Oven thermometer with timer and clock

This combined thermometer, clock, countdown timer displays both the actual and the alarm temperature over the range of 0 to 300°C and simultaneously the countdown or the actual time. It features magnetic pads at the rear to place it on any metallic surface. Each unit is supplied with a reduced tip stainless steel penetration probe with a 1-meter stainless steel braided lead.



Reference: 810-060

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	0 to 300°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	±1°C (0 to 130°C)/±3°C (131 to 300°C)
Accuracy:	±1°C (0 to 130°C)/±3°C (131 to 300°C)
Battery:	1x 1.5 volts AAA
Battery life:	5.000 hours
Dimensions:	18x73x125mm
Weight:	128g
Probe dimension:	Ø4x150mm

Application:

- Oven



Reference: 810-090

Indoor/Outdoor Alarm Thermometer with Max/Min function

This max/min alarm thermometer simultaneously displays the actual temperature whilst displaying the maximum and minimum temperatures.

This thermometer features a programmable hi/low temperature alarm that will sound when the pre-set limits have been exceeded, making this instrument ideal for monitoring growing cabinets.

Each unit is supplied with a probe with a 3-meter PVC wire and a useful foldaway stand and a keyhole slot for hanging on a wall.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-49.9 to 69.9°C (probe) / 0 to 49.9°C (internal sensor)
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±1°C
Battery:	1x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	20x65x97mm
Weight:	88g

Application:

- Storage
- Cold chambers
- Domestic use
- Nutrient tanks
- Growing cabinets



Reference: 810-961

Multi-function alarm catering thermometer

This multi-function digital thermometer is compact, easy to use and shows both the actual temperature and set alarm temperatures.

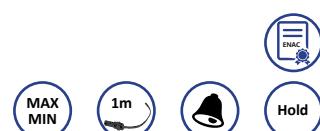
Each unit is supplied with a stainless steel penetration probe for food with a 1-meter PVC wire.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-49.9 to 149.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±1°C (-19.9 to 149.9°C)
Battery:	1x 1.5 volts AAA
Battery life:	5.000 hours
Dimensions:	32x86x116mm
Weight:	98g
Probe dimension:	Ø3.5x125mm

Application:

- Storage
- Cold chambers
- Domestic use
- Catering



SuperFast Thermapen® 3



The SuperFast Thermapen 3 thermometer incorporates a large digital display with a precise read-out of temperature. The resolution can be switched to 1 °C, if required, via a switch in the battery compartment. The thermometer will power off automatically after ten minutes, maximising battery life. This feature can be disabled if not required. The SuperFast Thermapen® 3 thermometer incorporates a reduced tip, stainless steel, food penetration probe that conveniently folds back through 180 degrees into the side of the instrument when not in use.

The response time of any thermometer is dependant on many factors; the mass of the sensing tip, heat transfer and, most importantly, the state of the substance being measured. Tests show that the response time of this instrument is just 3 seconds.

STANDARD PARAMETERS

Sensor element: K type thermocouple

Measuring range: -49.9 to 299.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1 or 1°C (programmable)

Accuracy: ±0.4°C (-49.9 y 199.9) other ±1°

Battery: 2 x 3 volts CR2032 lithium coin cell

Battery life: 1.500 hours

Dimensions: 19x47x153mm Probe dimension: Ø3.3x115mm

Weight: 97g

- Reference:**
- 231-217
 - 231-227
 - 231-237
 - 231-247
 - 231-257

MATERIALS

Housing: Plastic with Biomaster

Display: 14.3mm LCD

Application:

- Catering



SuperFast Thermapen® 4

The patented 360° self-rotating display can be used in any position, in either hand and is truly ambidextrous. The Thermapen 4 incorporates an intelligent backlit display sensing light levels, automatically turning the backlight on/off in varying light conditions. The motion-sensing sleep mode automatically turns the Thermapen 4 on/off when set down or picked up, maximising battery life. Measuring temperature over the range of -49.9 to 299.9 °C and used by hundreds of thousands of discerning cooks worldwide, it offers a combination of speed, accuracy and convenience of use.

The response time of any thermometer is dependant on many factors; the mass of the sensing tip, heat transfer and, most importantly, the state of the substance being measured. Tests show that the response time of this instrument is just 3 seconds.



STANDARD PARAMETERS

Sensor element: K type thermocouple

Measuring range: -49.9 to 299.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1 or 1°C (programmable)

Accuracy: ±0.4°C (-49.9 y 199.9) other ±1°

Battery: 1x 1.5volts AAA

Battery life: 3.000 hours

Dimensions: 19x50x157mm Probe dimension: Ø3.3x115mm

Weight: 120g

Reference:

- 234-417
- 234-427
- 234-437
- 234-447
- 234-457
- 234-407
- 234-477
- 234-487
- 234-497
- 234-507

MATERIALS

Housing: Plastic with Biomaster

Display: 15mm LCD horizontal / 11mm LCD vertical

Application:

- Catering



Thermometers with foldable probe

Reference:

231-210

Penetration: Ø3.3x108mm

Surface: Ø8x95mm

231-212

MATERIALS

Housing: Plastic with Biomaster

Display: 14.3mm LCD

231-214

Sensor element: K type thermocouple

Measuring range: -49.9 to 299.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1 or 1°C (programmable)

Accuracy: ±0.4°C (-49.9 to 199.9°C) or ±1°

Battery: 2 x 3 volts CR2032 lithium coin cell

Battery life: 1.500 hours

Dimensions: 19x47x153mm

Weight: 97g

Application:

- Air
- Surfaces
- Food



Reference: 231-279

STANDARD PARAMETERS

Sensor element: K type thermocouple

Measuring range: -49.9 to 299.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1 or 1°C (programmable)

Accuracy: ±0.4°C (-49.9 to 199.9°C) other ±1°

Battery: 2 x 3 volts CR2032 lithium coin cell

Battery life: 1.500 hours

Dimensions: 19x47x153mm

Weight: 100g

MATERIALS

Housing: Plastic with Biomaster

Display: 14.3mm LCD

Application:

- Surfaces
- Grills
- Cooktops



Reference: 231-011

STANDARD PARAMETERS

Sensor element: K type thermocouple

Measuring range: -49.9 to 299.9°C

Scale: Celsius-Fahrenheit (°C/F)

Resolution: 0.1 or 1°C (programmable)

Accuracy: ±0.4°C (-49.9 y 199.9) other ±1°

Battery: 2 x 3 volts CR2032 lithium coin cell

Battery life: 1.500 hours

Dimensions: 19x50x157mm Probe dimension: Ø1.1x60mm

Weight: 97g

MATERIALS

Housing: Plastic with Biomaster

Display: 14.3mm LCD

Application:

- Vacuum



G4

Portable thermometers with penetration probe



Reference: Digital 9.3

Pocket thermometer with Hold function

Portable thermometer with penetration stainless steel probe with dimensions Ø3.5x120mm. The instrument has a "Hold" button to keep a fixed temperature in display. Each unit includes a protective sheath with a pocket clip.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-49.9 to 299.9°C
Scale:	Celsius (°C)
Resolution:	0.1°C
Accuracy:	±1°C (-19.9 y 119.9) other ±2°C
Battery:	1x button cell 1.5 volts LR44
Battery life:	6.000 hours
Dimensions:	Ø20x200mm
Weight:	thermometer - 16.5g / sheath - 5.1g
Probe dimensions:	Ø3.5x120mm

Application:

- General



Reference: 810-270

Waterproof pocket thermometer

This thermometer is a handy pocket-sized thermometer. Include a reduced tip stainless steel probe that enables a quick reading of the temperature. It registers maximum and minimum temperatures. Each unit includes a protective sheath with a pocket clip.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-49.9 to 199.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C/F
Accuracy:	±0.5°C (-9.9 y 99.9°C) other ±1°
Battery:	1x 3 volts CR2032 lithium coin cell
Battery life:	5.000 hours
Dimensions:	Ø41x17x175mm
Weight:	22g
Probe dimension:	Ø2.5x125mm

MATERIALS

Housing:	ABS plastic
Display:	LCD 8.5mm

Application:

- Catering



Reference: 810-275

Dishwasher thermometer

It can be placed inside a dishwasher to ensure that maximum cycle temperature is correct. It can be used as a conventional food thermometer. The portable compact thermometer features a pointed stainless steel probe. Each unit includes a protective silicone boot and sheath with a pocket clip and a wall-mounting keyhole slot.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-49.9 to 199.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C/F
Accuracy:	±0.5°C (-9.9 y 99.9°C) other ±1.5°
Battery:	1x 3 volts CR2032 lithium coin cell
Battery life:	5.000 hours
Dimensions:	20x26x200mm
Weight:	25g
Probe dimension:	Ø2.5x122mm

MATERIALS

Housing:	ABS plastic
Display:	LCD 8mm

Application:

- Dishwasher
- Catering





Pocket thermometer THERMALITE 1

This instrument will turn off automatically after 10 minutes, maximizing battery. The THERMALITE is equipped with a protective plastic cover that includes Biomaster, an additive that reduces bacterial growth. It is ideal for daily routine, food and catering applications. (HACCP compliant)

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-39.9 to 149.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±0.5°C (-39.9 y 124.9) other ±1°
Battery:	1x button cell 3 volts CR2032
Battery life:	5.000 hours
Dimensions:	Ø29x196mm including probe
Probe dimensions:	Ø3.3x80mm
Weight:	45g

Reference: 226-101

226-111

226-121

226-131

226-141

226-151

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 10mm

Application:

• Catering



Pocket thermometer with Cal Check function THERMALITE 2

This instrument will turn off automatically after 10 minutes, maximizing battery. The THERMALITE is equipped with a protective plastic cover that includes Biomaster, an additive that reduces bacterial growth. It is ideal for daily routine, food and catering applications.

(HACCP compliant). It also has a "Hold" button to keep a fixed temperature in display.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-39.9 to 149.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±0.5°C (-39.9 y 124.9) other ±1°
Battery:	1x button cell 3 volts CR2032
Battery life:	5.000 hours
Dimensions:	Ø29x196mm including probe
Probe dimensions:	Ø3.3x80mm
Weight:	45g

Reference: 226-102

226-112

226-122

226-132

226-142

226-152

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 10mm

Application:

• Catering



Food thermometer CATERTEMP

Thermometer designed especially for professional chefs looking for a simple tool that allows them to meet the standards for food handling, it also has the "Hold" function that keeps any reading on-screen. It includes a stainless steel probe with a 1m polyurethane wire.



Reference: 221-046

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-49.9 to 299.9°C
Scale:	Celsius (°C)
Resolution:	0.1°C
Accuracy:	±0.4°C (-50 y 199°C) other ±1°
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Ø3.3x130mm
Wire:	1m coiled
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster	Wire:	Polyurethane
Display:	LCD 12mm		

Application:

-Catering



Food thermometer THERMAMITE

Thermometer designed especially for professional chefs looking for a simple, accurate and inexpensive tool that allows them to meet the standard for food handling. It includes a stainless steel probe with a 500mm PVC wire.



Reference: ○ 261-010
○ 261-020
○ 261-030
○ 261-040
○ 261-050

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-50 to 300°C
Scale:	Celsius (°C)
Resolution:	1°C
Accuracy:	±1°C ±1%
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Ø3.3x100mm
Wire:	0.5m
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster	Wire:	PVC
Display:	LCD 12mm		

Application:

-Catering



Catering thermometer FOODCHECK

Thermometer designed especially for professional chefs looking for a simple, accurate and inexpensive tool that allows them to meet the standard for food handling. It includes a stainless steel probe with a 500mm PVC wire.



Reference: ○ 221-018
○ 221-028
○ 221-038
○ 221-048
○ 221-058

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-49.9 to 299.9°C
Scale:	Celsius (°C)
Resolution:	0.1°C
Accuracy:	±0.4°C (-50 to 199°C) other ±1°
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Ø3.3x130mm
Wire:	0.5m
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster	Wire:	PVC
Display:	LCD 12mm		

Application:

-Catering





Reference: 221-041

Industrial thermometers with replaceable probe

Industrial thermometer THERMA 1

Durable and easy to use instrument with a large LCD screen for easy reading. It can be combined with a wide variety thermocouple probe type K making it a versatile tool suitable for use in many industrial applications.

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-99.9 to 1372°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C (-99.9 to 299.9°C) / 1°C (300 to 1372°C)
Accuracy:	±0.4°C ±0.1%
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm

Application:

•Industrial



Reference: 221-043

Industrial thermometer THERMA 3

Durable and easy to use instrument with a large LCD screen for easy reading. It can be combined with a wide variety thermocouple probe type K making it a versatile tool suitable for use in many industrial applications.

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-100 to 1372°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	1°C
Accuracy:	±1°C ±0.1%
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm

Application:

•Industrial



Reference: 221-061

Industrial thermometer THERMA ELITE

This instrument incorporates all the features of Therma 1 and 3 along with backlit display, max/min memory function and a mode switch button for selecting resolution (0.1-1) or scale (°C/°F).

The thermometer also incorporates a calibration adjustment function (± 2°C), which allows users to compensate for thermocouple probe errors.

STANDARD PARAMETERS

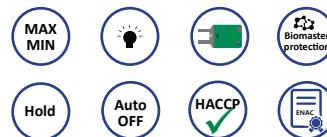
Sensor element:	K type thermocouple
Measuring range:	-99.9 to 1372°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C (-99.9 to 299.9°C) / 1°C (300 to 1372°C)
Accuracy:	±0.4°C ±0.1%
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm

Application:

•Industrial



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High accuracy food thermometer THERMA 20 Series

Thermometer designed with the catering industry in mind, indicated for its use in processes requiring guarantees in safety and health. It can be used at low temperatures. The instrument can be combined with Lumberg connector NTC probes.



Reference:
226-040

Application

- Food
- Catering

Therma 20

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-39.9 to 149.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±0.4° (-10 to 70°C)
Battery:	3x 1.5 volts AAA
Battery life:	20.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm



Reference:
232-040

Application

- Food
- Catering

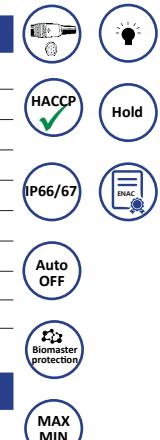
Therma 20 plus

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-39.9 to 149.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±0.4° (-10 to 70°C)
Battery:	3x 1.5 volts AAA
Battery life:	10.000 hours
Dimensions:	32x71x141mm
Probe dimension:	Probe not included
Weight:	220g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 15mm



High accuracy food thermometer THERMA 22 Series

Thermometer designed for the catering industry, this versatile instrument supports Lumberg connector NTC thermistor probes and T type thermocouples.



Reference:
227-022

Application

- Food
- Catering

Therma 22

STANDARD PARAMETERS

Sensor:	Thermistor / type T thermocouple
Thermistor range:	-39.9 to 149.9°C
Type T/c range:	-199.9 to 400°C
Scale:	Celsius (°C)
Resolution:	0.1°C to 300°C thereafter 1°C
Accuracy	

Instrument only: ±0.2°C
T thermocouple: ±0.5° (-50 to 150°C)
Thermistor: ±0.4° (-10 to 70°C)

Battery:	3x 1.5 volts AAA
Battery life T thermocouple:	10.000 hours
Battery life Thermistor:	20.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included

Weight: 130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm



Reference:
232-041

Application

- Food
- Catering

Therma 22 plus

STANDARD PARAMETERS

Sensor:	Thermistor / type T thermocouple
Thermistor range:	-39.9 to 149.9°C
Type T/c range:	-199.9 to 400°C
Scale:	Celsius (°C)
Resolution:	0.1°C (hasta 300°C) other 1°C

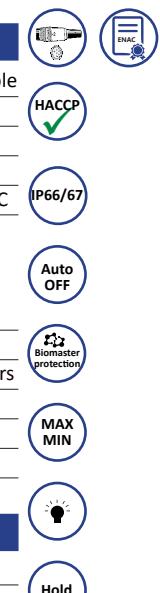
Accuracy
Instrument only: ±0.2°C
T thermocouple: ±0.5° (-50 to 150°C)
Thermistor: ±0.4° (-10 to 70°C)

Battery:	3x 1.5 volts AAA
Battery life T thermocouple:	10.000 hours
Battery life Thermistor:	20.000 hours
Dimensions:	32x71x141mm
Probe dimension:	Probe not included

Weight: 220g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 15mm





Reference: 222-213

STANDARD PARAMETERS

Sensor element:	PT100
Measuring range:	-69.9 to 199.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.01°C
Accuracy:	±0.07°C (-30 to 149.9°C) other ±0.2°C
Battery:	2x 3 volts CR2032 lithium coin cell
Battery life:	1.000 hours
Dimensions:	19x47x153mm Probe dimension: Ø3.3x108mm
Weight:	97g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm

Application:

- Calibration
- Laboratories
- Industrial



Reference: 222-055

Calibration thermometer with fixed probe REFERENCE

Ideal for checks and inspections of other instruments or probes.
Its wide temperature range and precision make it suitable for a large number of applications. It is supplied with a fixed PT100 probe with great accuracy.

STANDARD PARAMETERS

Sensor element:	PT100 1/10th DIN
Measuring range:	-199.9 to 199.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.01°C
Accuracy:	±0.05°C (-30 to 150°C) ±0.1°C (-50 to 200°C)
Battery:	3x 1.5 volts AAA
Battery life:	2.000 hours
Dimensions:	25x56x128mm Probe dimension: Ø3.3x130mm Wire: 1m
Weight:	210g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 10mm

Application:

- Calibration
- Laboratories
- Industrial



Reference: 222-053

Precision

STANDARD PARAMETERS

Sensor element:	PT100
Measuring range:	-199.9 to 499.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.1°C
Accuracy:	±0.2°
Battery:	3x 1.5 volts AAA
Battery life:	2.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Probe not included
Weight:	130g

Application:

- Laboratories
- Industrial

Accuracy thermometer with interchangeable probe PRECISION Series

Precision instruments with plug at the top for different probes. Given accuracy applies only to the instrument, not the probe.



Reference: 222-051

Application:

- Laboratories
- Industrial

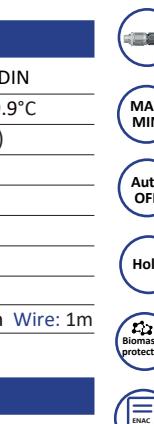
Precision Plus

STANDARD PARAMETERS

Sensor element:	PT100 1/10th DIN
Measuring range:	-199.9 to 199.9°C
Scale:	Celsius-Fahrenheit (°C/F)
Resolution:	0.01°C
Accuracy:	±0.05°
Battery:	3x 1.5 volts AAA
Battery life:	2.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Ø3.3x130mm
Wire:	1m
Weight:	130g

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 10mm





Industrial thermometers

Waterproof thermometer with replaceable probe THERMA PLUS

The thermometer is housed in a robust extruded aluminium waterproof case with a white anti-bacterial/salt resistant powder coated finish. The Therma Plus incorporates the latest microprocessor technology with improved durability, designed for reliability and ease of use in routine food processing and industrial applications.

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-99.9 to 1372°C
Scale:	Celsius (°C)
Resolution:	0.1 / 1°C auto-ranging @ 299.9°C
Accuracy:	±0.4°C ±0.1% of reading
Battery:	1x 9 volts PP3 alkaline
Battery life:	5.000 hours
Dimensions:	35x60x115mm
Probe dimension:	Probe not included
Weight:	194g

Reference: 221-071

221-271

221-371

221-471

221-571

MATERIALS

Housing:	Extruded aluminum
Display:	LCD



Waterproof thermometer with fixed probe CATERTEMP PLUS

The thermometer is housed in a robust extruded aluminium waterproof case with a white anti-bacterial/salt resistant powder coated finish. The Catertemp Plus incorporates the latest microprocessor technology with improved durability, designed for reliability and ease of use in routine food processing and industrial applications.

STANDARD PARAMETERS

Sensor element:	K type thermocouple
Measuring range:	-49.9 to 299.9°C
Scale:	Celsius (°C)
Resolution:	0.1°C
Accuracy:	±0.4°C ±1 digit
Battery:	1x 9 volts PP3 alkaline
Battery life:	5.000 hours
Dimensions:	35x60x115mm
Probe dimension:	Ø3.3x130mm
Wire:	1m coiled
Weight:	244g

Reference: 221-056

221-256

221-356

221-456

221-556

MATERIALS

Housing:	Extruded aluminum
Display:	LCD



Catering thermometer with fixed probe THERMACHECK

Designed specifically for use in food processing industries and catering. Meets food handling standards and a high system. It includes a fixed stainless steel probe and a 1m polyurethane cable.

STANDARD PARAMETERS

Sensor element:	Thermistor
Measuring range:	-39.9 to 149.9°C
Scale:	Celsius (°C)
Resolution:	0.1°C
Accuracy:	±0.4°C (-20 to 70°C)
Battery:	3x 1.5 volts AAA
Battery life:	20.000 hours
Dimensions:	25x56x128mm
Probe dimension:	Ø3.3x130mm
Wire:	1m coiled
Weight:	220g

Reference: 226-042

MATERIALS

Housing:	ABS plastic with Biomaster
Display:	LCD 12mm



Metrology Laboratory| Calibration certificates

The calibration certificate is a document that shows the differences in measurement between the instrument to be calibrated (measurand) and the standard against which it is contrasted. This document must include the uncertainty of the measurand at each calibrated point.

In the Calibration Laboratory of Gesa Termómetros, S. L. we calibrate both our instruments and those manufactured in other companies.

These are factory certificates that include the following information:

- Points to be calibrated (usually chosen by the client)
- Differences between the measurements shown by the instrument to be calibrated (measurand) and the Gesa standards against which they are contrasted.
- Uncertainties of measurement of each contrasted point.



A) Calibrated instruments:

The list of calibrated instruments in Gesa is very broad. Before sending your equipment or instrument to calibrate our facilities, please contact us to make sure that your instrument can be calibrated. The limitations may be due to:

Equipment resolutions or precisions superior to those that the Gesa patterns can face. As a rule, the patterns must be an order of magnitude superior in precision and resolution to those of the instruments to be calibrated. (see section e) "Equipment used in the calibrations and patterns of Gesa" to check the characteristics of the Gesa standards)

Physical dimensions or construction of the instrument.

State of the instrument. It may be necessary to repair the instrument before recalibrating it. For this it will be necessary to make a previous economic budget. We perform calibrations in the following areas:

Metrology Laboratory| Calibration certificates

Temperature and Humidity

- Platinum resistance thermometers
- Direct reading thermometers with thermometric resistance sensor
- Direct reading thermometers with thermocouple sensor
- Dataloggers
- Direct reading thermometers with other sensors (bi-metal strip or gas expansion)
- Temperature transmitters
- Thermocouples made of noble metal and common metals
- Thermometers of total, partial or complete immersion in liquid
- Direct reading thermometers (air temperatures)
- Thermometers of infrared radiation.
- Meters of environmental conditions of temperature and humidity in air:
Psychrometers, hygrometers and loggers of relative humidity.



Pressure and Vacuum

- Pressure gauges, pressure transmitters and vacuum gauges

B) Reasons for calibration:

- Expiration of the validity period
- Exhaustion of a certain volume of use (hours of work)
- Impacts or strong vibrations that decalibrate the instrument
- Temperature changes
- As long as the observations obtained are questionable
- To comply with the regulations in force

Metrology Laboratory| Calibration certificates

C) Internal calibration procedures

For each quantity (temperature, pressure, humidity) and each type of instrument, we have defined a calibration procedure.

All of them are carried out within the scope of our ISO 9001 Quality Certification: Laboratory Organization, document control, staff training, customer service ...

As a guide to our procedures, we use the documents published by the Spanish Metrology Center (CEM). Among others:

- TH-001 Procedure for the calibration of digital thermometers
- TH-002 Procedure for the calibration of infrared radiation thermometers
- TH-003 Procedure for calibration by comparison of thermocouples
- TH-004 Procedure for calibration by comparison of liquid column thermometers
- TH-005 Procedure for the calibration by comparison of platinum thermometric resistances
- TH-007 Procedure for the calibration of meters of environmental conditions of temperature and humidity in air
- ME-001 Calibration of Vacuum Gauges
- ME-003e Calibration of pressure gauges
- ME-010 Calibration of pressure gauges calibrators
- ME-017 Procedure for the calibration of pressure transducers with electrical output

The fundamental objective of the calibration is the estimation of the measurement uncertainty. According to the International Metrology Vocabulary (1) the measurement uncertainty is "a non-negative parameter that characterizes the dispersion of the values attributed to a measurand".



In order to calculate the uncertainty, we applied the "Guide for the expression of the Incertainty in the measurement" (2) and the document EA-4/02 M:2013 "Evaluation of the measurement Uncertainty in the calibrations".

Calibration procedures include, among other tests, hysteresis, uniformity and repeatability. All of them contribute to the uncertainty of measurement:

The corresponding contributions to the calibration system:

- ME-010 Calibration of pressure gauges calibrators
- ME-017 Procedure for the calibration

The corresponding contributions to the measurand:

- Reading uncertainty (resolution)
- Repeatability, hysteresis and/or uniformity.
- Other magnitudes of influence

Metrology Laboratory| Calibration certificates

D) Equipment used in calibrations and standards

The calibration certificates must be traceable, ie must be able to identify all steps in the chain of calibrations to an internationally recognized entity. In our case, all the standards are traceable and are periodically calibrated by entities accredited by ENAC (National Accreditation Entity) or UKAS (United Kingdom Accreditation Service).

1. Temperature control

- We have calibration equipment that guarantees a high stability of the setpoint temperature over time (± 0.05 K) as well as a great uniformity of temperature at any point of the equipment. The better the equipment, the less uncertainty the calibration laboratory brings to the measurement uncertainty.
- For temperature, the calibratable range is -80°C to + 600°C. The uncertainty of our standards is less than 0.02°C.

2. Pressure and vacuum control.

- For the calibration of pressure and vacuum instruments we have equipment capable of generating pressures with resolutions of up to 10 Pa (0.1 mbar). The high quality of its components (shut-off valves, quick connectors, etc.) allows stable pressures to be maintained during calibration.
- As working fluids we use air, water or hydraulic oils depending on the pressure range of the instrument to be calibrated
- For pressure, the calibratable range is -95 KPa to 60 MPa (-0.95 to 600 bar) (gauge pressure). The uncertainties of our standards is less than 80 Pa (0.8 mbar).

1. Relative humidity

- For the calibration of hygrometers we have climatic chambers with temperature and relative humidity control.
- For relative humidity, the calibrated points are 50% RH, 60% RH and 70% RH all measured at 20°C or 25°C. The uncertainty of the standards is 1.2% RH.



E) Periodicity of calibrations

The owner of the instrument is the one who decides the validity of the certificate issued. Normal terms are usually between six months and two years depending on the conditions of use in which the instrument works.



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