







Description

PAKKENS TE Series Temperature Gauges have been developed as a standard version for temperature indication in HVAC systems, heating, and cooling applications. The modular design of the temperature gauge makes it enable to have different combinations of nominal sizes, stem lengths, and scale ranges.

The bimetal temperature gauges are assembled to the processes with screw-in thermowells. Besides protecting the measurement instrument, the thermowell is also used for exchanging the temperature gauge without halting the systems.

Industrial Applications

Air Conditioning and Refrigeration Systems, Heating Systems, Ventilation Systems, Hot Water Tanks, Solar Collectors

General Specifications

Confirmity: EN13190 **Temperature Sensing Element:** Bimetal Helix Coil Sizes (mm): Ø63, Ø100, Ø160 **Bulb Diameter (mm):** Thermowell Diameter (mm): Ø12 Unit: °C

Immersion Length (mm): Ø63: 50mm...500mm Ø100:50mm...1000mm

Measurement Ranges:

Ø160:100mm...1000mm

-30°C...200°C (For products that have a 50mm immersion length) -30°C...500°C

Accuracy Class: CL 2.0

Ingress Protection Rate: IP51

Max. Working Pressure: 25 bar

Process Connections:

G1/2"B

Materials:

Bimetal Cover:

Brass

Thermowell:

AISI 316L, Brass (For products that have a 50mm immersion length)

Ø63, Ø100: AISI 430 Ø160: Black Painted Steel

Kapak:

Ø63, Ø100: AISI 430 Ø160: Black Painted Steel

Window:

Ø63: Polycarbonate (≤120°C) Ø63, Ø100, Ø160: Glass

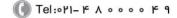
Aluminium Pointer:

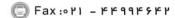
Ø63, **Ø100**: Plastic (≤160°C) Ø63, Ø100, Ø160: Aluminium

Options:

Other process connections Other temperature units Special dial design

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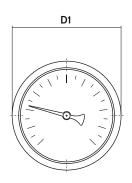


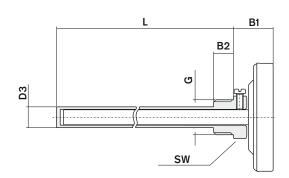




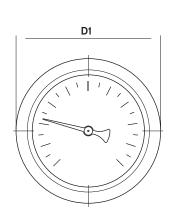
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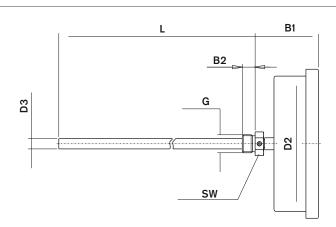
01- Ø63, Ø100





02-Ø160





Ø	Connections	Version	Case	Window	Cover	D1	D2	D3	B1	B2	L	G	SW
63	Back	Standard	Metal	Glass*	Metal	65	-	12	23	12	50-1000	G1/2"	22
100	Back	Standard	Metal	Glass	Metal	100	-	12	26,5	15	50-1000	G1/2"	24
160	Back	Standard	Metal	Glass	Metal	174	160	12	74	15	100-1000	G1/2"	24

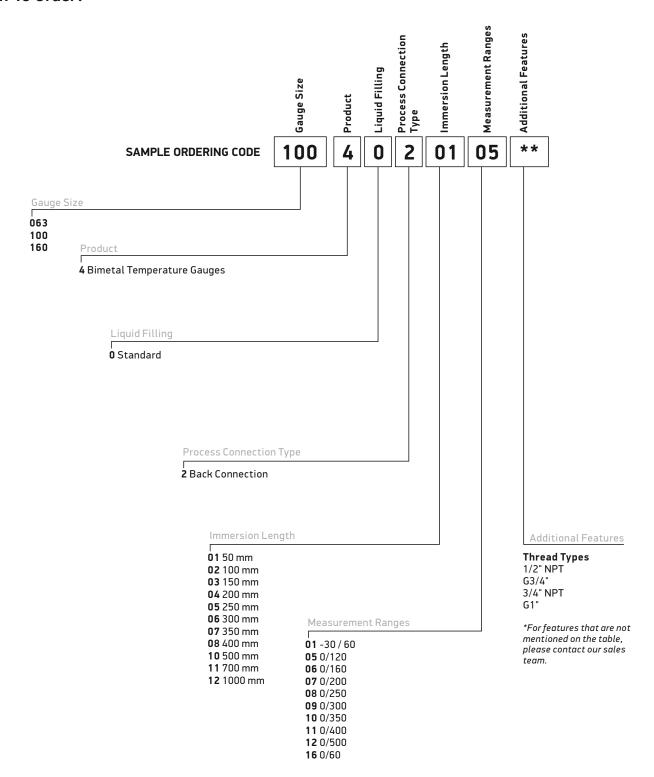
^{*} Polycarbonate (≤120°C)







How To Order?







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Approvals:



Turkish Standards Institution



ENISO 9001 ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



€ 2014/68/EU Pressure Equipment Directive - Certificate of Conformity



RoHS 211/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



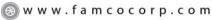
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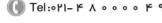
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Technical Document No: SRT.02.24/00





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Description

PAKKENS TE Series Temperature Gauges have been developed as a standard version for temperature indication in HVAC systems, heating, and cooling applications. The modular design of the temperature gauge makes it enable to have different combinations of nominal sizes, stem lengths, and scale ranges.

The bimetal temperature gauges are assembled to the processes with screw-in thermowells. Besides protecting the measurement instrument, the thermowell is also used for exchanging the temperature gauge without halting the systems.

Industrial Applications

Air Conditioning and Refrigeration Systems, Heating Systems, Ventilation Systems, Hot Water Tanks, Solar Collectors

General Specifications

Confirmity:
EN13190

Temperature Sensing Element:
Bimetal Helix Coil

Sizes (mm):
Ø63, Ø100, Ø160

Bulb Diameter (mm):
Ø9

Thermowell Diameter (mm):
Ø12

Unit:
°C

Immersion Length (mm): Ø63: 50mm...500mm

Ø100:50mm...1000mm Ø160:100mm...1000mm

Measurement Ranges:

-30°C...200°C (For products that have a 50mm immersion length)

-30°C...500°C

Accuracy Class:

CL 2.0

Ingress Protection Rate:

IP51

Max. Working Pressure:

25 bar

Process Connections:

G1/2"B

Materials:

Bimetal Cover:

Brass

Thermowell:

AISI 316L, Brass (For products that have a 50mm immersion length)

Case:

Ø63, **Ø100**: AISI 430 **Ø160**: Black Painted Steel

Kapak:

Ø63, **Ø100**: AISI 430 **Ø160**: Black Painted Steel

Window:

Ø63: Polycarbonate (≤120°C) **Ø63**, **Ø100**, **Ø160**: Glass

Dial: Aluminium Pointer:

Ø63, **Ø100** : Plastic (≤160°C) **Ø63**, **Ø100**, **Ø160** : Aluminium

Options:

Other process connections Other temperature units Special dial design

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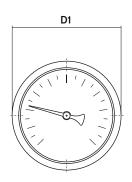


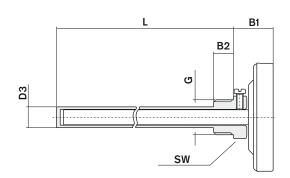
Back Connection Bimetal Temperature Gauges



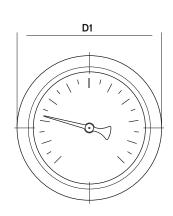
Dimensions(mm)

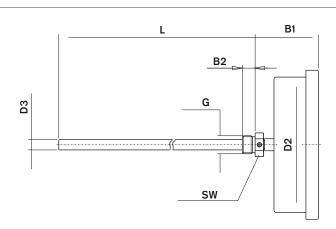
01- Ø63, Ø100





02-Ø160





Ç	ð	Connections	Version	Case	Window	Cover	D1	D2	D3	B1	B2	L	G	SW
6	3	Back	Standard	Metal	Glass*	Metal	65	-	12	23	12	50-1000	G1/2"	22
10	00	Back	Standard	Metal	Glass	Metal	100	-	12	26,5	15	50-1000	G1/2"	24
16	60	Back	Standard	Metal	Glass	Metal	174	160	12	74	15	100-1000	G1/2"	24

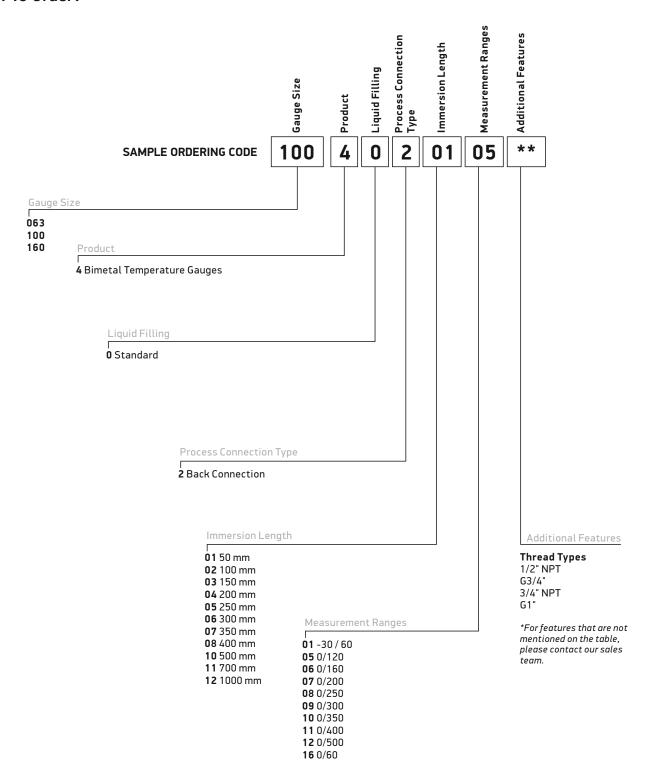
^{*} Polycarbonate (≤120°C)







How To Order?







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Approvals:



Turkish Standards Institution



ENISO 9001 ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



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RoHS 211/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



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Industrial Applications

Air Conditioning and Refrigeration Systems, Heating Systems, Ventilation Systems, Hot Water Tanks, Solar Collectors

General Specifications

General Specifications
Confirmity: EN13190
Temperature Sensing Element: Bimetal Helix Coil
Sizes (mm): Ø100, Ø160
Bulb Diameter (mm): Ø9
Thermowell Diameter (mm): Ø12
Unit: °C
Immersion Length (mm): 100mm1000mm
Measurement Ranges: -30°C500°C
Accuracy Class: CL 2.0
Ingress Protection Rate: IP51
Max. Working Pressure: 25 bar
Process Connections: G1/2"B

Materials: Bimetal Cover:

Brass

Thermowell: AISI 316L

Case:

Black Painted Steel

Cover:

Black Painted Steel

Window: Glass

Dial:

Aluminium

Pointer:

Ø100: Plastic (≤160°C) **Ø100, Ø160:** Aluminium

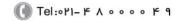
Options:

Other process connections Other temperature units Special dial design

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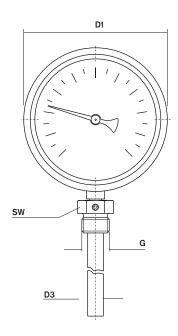


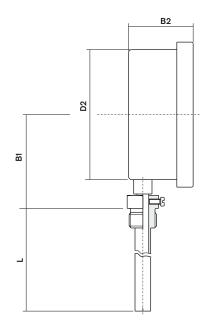




Dimensions(mm)

01- Ø100, Ø160





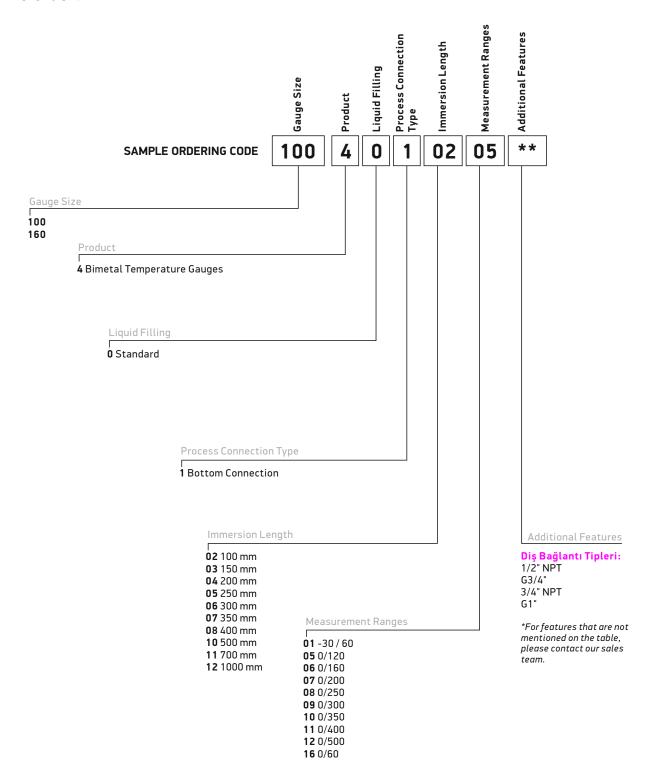
Ø	Connections	Version	Case	Window	Cover	D1	D2	D3	В1	В2	L	G	SW
100	Bottom	Standard	Metal	Glass	Metal	110	100	12	72	48	100-1000	G1/2"	22
160	Bottom	Standard	Metal	Glass	Metal	174	160	12	102	48	100-1000	G1/2"	22







How To Order?









Approvals:



Turkish Standards Institution



ENISO 9001 ISO 9001 Quality Management System



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General Specifications	
Confirmity: EN13190	
Temperature Sensing Element: Bimetal Helix Coil	
Sizes (mm): Ø100, Ø160	
Bulb Diameter (mm): Ø9	
Thermowell Diameter (mm): Ø12	
Unit:	
Immersion Length (mm): 100mm1000mm	
Measurement Ranges: -30°C500°C	
Accuracy Class: CL 2.0	
Ingress Protection Rate: IP51	
Max. Working Pressure: 25 bar	
Process Connections: G1/2"B	
·	

Materials: **Bimetal Cover:**

Brass

Thermowell: AISI 316L

Case:

Black Painted Steel

Cover:

Black Painted Steel

Window: Glass

Dial:

Aluminium Pointer:

Ø100: Plastic (≤160°C)

Ø100, Ø160: Aluminium

Options:

Other process connections Other temperature units Special dial design

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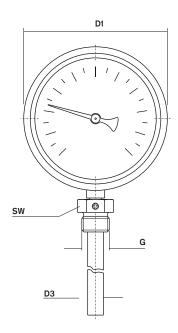


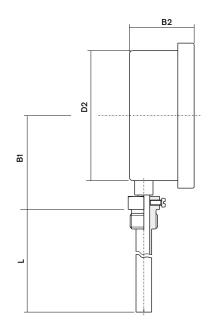




Dimensions(mm)

01- Ø100, Ø160





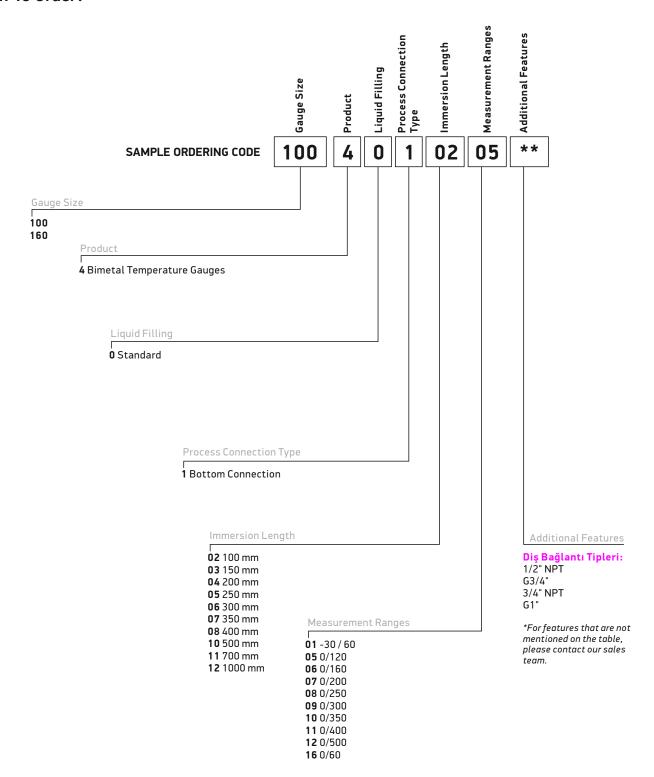
Ø	Connections	Version	Case	Window	Cover	D1	D2	D3	В1	В2	L	G	SW
100	Bottom	Standard	Metal	Glass	Metal	110	100	12	72	48	100-1000	G1/2"	22
160	Bottom	Standard	Metal	Glass	Metal	174	160	12	102	48	100-1000	G1/2"	22







How To Order?







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Approvals:



Turkish Standards Institution



ENISO 9001 ISO 9001 Quality Management System



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RoHS 211/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



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Usage Properties

Dial Thermometers - TG 100

- Used where industrial accuracy is needed.
- Used with gas and liquids which do not attack stainless steel 316L.
- With its capillary tubing Thermometer's body can be mounted away from heat source (max. 5mt)
- In vibrating environments silicon oil filled types should be used.
- As an option electric contacts can be added on request.

Industry Sector: Petro-chemical plants, Machinery Manufacturing, Heating, ventilation, a conditioning (HVAC) and vessel manufacturers









Conformity	· EN 13190
Accuracy Class	· CL 1.0
Protection Rate	· IP 51
Storage Temperature	· -40 +70 °C
onstructive Prope	rties
Mounting Type	· Bottom Connection
Scale Range (T)	· -40/+40°C · -40/+60°C · 0/+120°C · 0/+160°C · · · · 0/+300°C · 0/+350°C · 0/+400°C ·
	0/+500°C
Case	· Stainless Steel AISI-304
Bezel	· Stainless Steel AISI-304
Window	· Glass
Connection	· G 1/2" B
Dial	· Aluminum
Pointer	· Aluminum
Temperature Element	· Gas Actuated
Thermowell	· Stainless Steel AlSI-316L
mmersion Length	· 200mm
Capillary Tube Length	· 3m · 5m

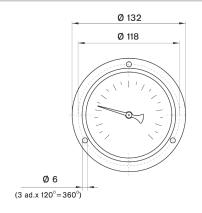


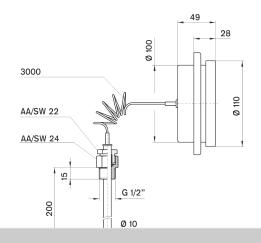




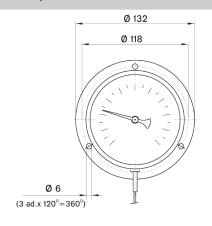


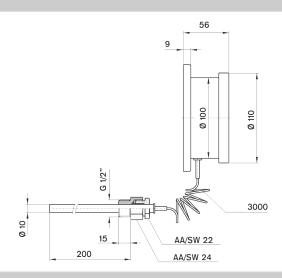
Technical Drawings - TG 100





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Dial Thermometers - TG 100

- Used where industrial accuracy is needed.
- Used with gas and liquids which do not attack stainless steel 316L.
- With its capillary tubing Thermometer's body can be mounted away from heat source (max. 5mt)
- In vibrating environments silicon oil filled types should be used.

Industry Sector: Petro-chemical plants, Machinery Manufacturing, Heating, ventilation, a conditioning (HVAC) and vessel manufacturers







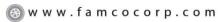


Usage	Properties
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Conformity	· EN 13190
Accuracy Class	· CL 1.0
Protection Rate	· IP 51
Storage Temperature	· -40 +70 °C

Constructive Properties

Mounting Type	· Bottom Connection
Scale Range (T)	· -30/+60°C · 0/+120°C · 0/+160°C · · · · 0/+300°C · 0/+350°C · 0/+400°C · 0/+500°C
Case	· Stainless Steel AlSI-304
Bezel	· Stainless Steel AISI-304
Window	· Polycarbonate
Connection	· G 1/2" B
Dial	· Aluminum
Pointer	· Aluminum
Contact Types	$\cdot \ Indcutive \cdot 1NO \cdot 1NC \cdot 2NONO \cdot 2NONC \cdot 2NCNC \cdot 2NCNO$
Temperature Element	· Gas Actuated
Thermowell	· Stainless Steel AISI-316L
Immersion Length	· 200mm
Capillary Tube Length	· 3m · 5m



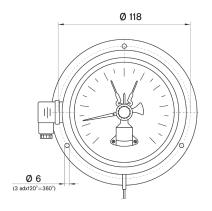


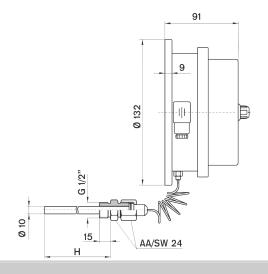




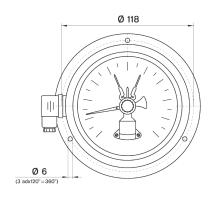


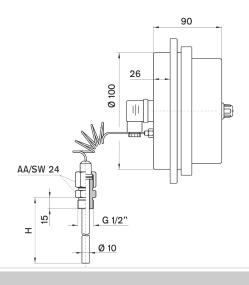
Technical Drawings - TG 100





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100 612 K/







Usage Properties

Dial Thermometers - TG 160

- Used where industrial accuracy is needed.
- Used with gas and liquids which do not attack stainless steel 316L.
- With its capillary tubing Thermometer's body can be mounted away from heat source (max. 5mt)
- In vibrating environments silicon oil filled types should be used.
- As an option electric contacts can be added on request.

Industry Sector: Petro-chemical plants, Machinery Manufacturing, Heating, ventilation, a conditioning (HVAC) and vessel manufacturers









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Conformity	· EN 13190
Accuracy Class	· CL 1.0
Protection Rate	· IP 51
Storage Temperature	· -40 +70 °C
Constructive Proper	rties
Mounting Type	· Bottom Connection
Scale Range (T)	· -40/+40°C · -40/+60°C · 0/+120°C · 0/+160°C · · · · 0/+300°C · 0/+350°C · 0/+400°C ·
	0/+500°C
Case	· Stainless Steel AISI-304
Bezel	· Stainless Steel AISI-304
Window	· Glass
Connection	· G 1/2" B
Dial	· Aluminum
Pointer	· Aluminum
Temperature Element	· Gas Actuated
Thermowell	· Stainless Steel AlSI-316L
Immersion Length	· 200mm
Capillary Tube Length	· 3m · 5m



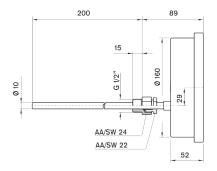




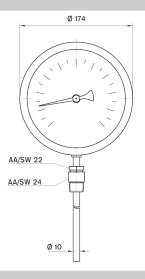
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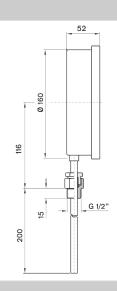
Technical Drawings - TG 160



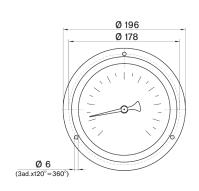


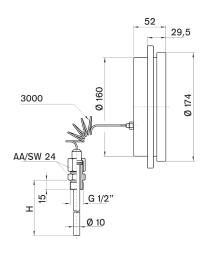
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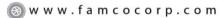


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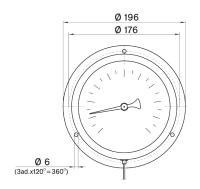
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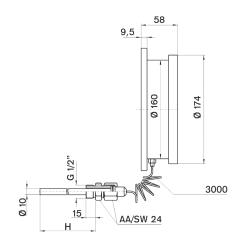
تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پارس، پلاک ۱۲



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Technical Drawings - TG 160





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Dial Thermometers - TG 160

- Used where industrial accuracy is needed.
- Used with gas and liquids which do not attack stainless steel 316L.
- With its capillary tubing Thermometer's body can be mounted away from heat source (max. 5mt)
- In vibrating environments silicon oil filled types should be used. Industry Sector: Petro-chemical plants, Machinery Manufacturing, Heating, ventilation, air conditioning (HVAC) and vessel manufacturers











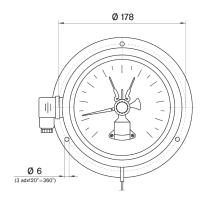
Usage Properties		
Conformity	· EN 13190	
Accuracy Class	· CL 1.0	
Protection Rate	· IP 51	
Storage Temperature	· -40 +70 °C	
Constructive Properties		
Mounting Type	· Bottom Connection	

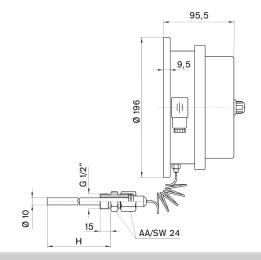
Constructive Properties	
Mounting Type	· Bottom Connection
Scale Range (T)	· -30/+60°C · 0/+120°C · 0/+160°C · · · 0/+300°C
Case	· Stainless Steel AISI-304
Bezel	· Stainless Steel AISI-304
Window	· Polycarbonate
Connection	· G 1/2" B
Dial	· Aluminum
Pointer	· Aluminum
Contact Types	$\cdot \ Indcutive \cdot 1NO \cdot 1NC \cdot 2NONO \cdot 2NONC \cdot 2NCNC \cdot 2NCNO$
Temperature Element	· Gas Actuated
Thermowell	· Stainless Steel AISI-316L
Immersion Length	· 200mm
Capillary Tube Length	· 3m · 5m



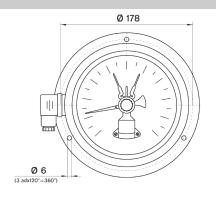


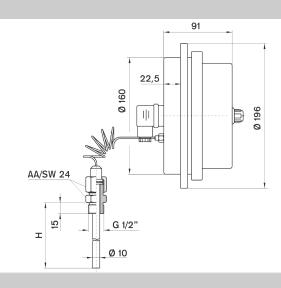
Technical Drawings - TG 160





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