

# **Bimetal Thermometers**

# Process Industry Series • Model 55 with Adjustable Stem and Dial

# **Thermometers**

#### Service intended

All stainless steel thermometer. Suitable for corrosive media and environments in chemical process, petroleum and food industry. The instruments meet the highest standards of measurement technique.

#### **Nominal size**

100 and 160 mm

#### Temperature element

Coiled bimetal

#### **Accuracy**

Class 1 per DIN EN 13 190

### Working range

Permanent (1 year): measuring range per DIN EN 13 190 scale range per DIN EN 13 190

#### Pressure rating of stem

25 bar maximum

#### Nominal use

**DIN EN 13 190** 

### Ingress protection

IP 56 / IP 65 per EN 60 529 / IEC 529

IP 65 per EN 60 529 / IEC 529 for gauges with alarm contacts

# Standard features

# Location of stem

Centre back

#### Case

Rotatable on stem 360° Stem adjustable every angle Material: stainless steel

#### Bezel

Cam ring (bayonet type) bezel, natural finish stainless steel

### Connection

Plain stem, stainless steel 1,4571

# Stem

8 mm diameter, stainless steel 1.4571

#### Dial

White aluminium with black lettering per DIN EN 13 190

#### **Pointe**

Adjustable black aluminium pointer

#### Window

Instrument glass

# Optional extras

- Case and stem with liquid damping (250 °C max.)
- Ingress protection IP 66 (not for gauges with alarm contacts)
- Scale °F, K; dual scale °C/°F
- Window of laminated safety glass or non-splintering plastic
- Stem 6, 10 or 12 mm diameter
- Stem with integral thread connection
- Thermowells per DIN 43 772 or to user specifications
- Alarm contacts (see data sheet AC 08.01)



Scale, measuring ranges 1), limits of error per DIN EN 13 190, class 1

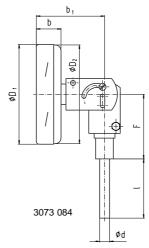
Scale range	Scale spacing	Measuring range 1)	Limit of error	
°C	°C	°C	°C	
- 70 <b>+</b> 30		- 60 + 20		
- 50 <b>+</b> 50		- 40 + 40		
- 30 + 50		- 20 + 40		
- 20 + 60	1	- 10 + 50	1	
0 60		+ 10 + 50		
0 80		+ 10 + 70		
0 100		+ 10 + 90		
0 120	2	+ 10 + 110		
0 160		2 + 20 + 140		
0 200		+ 20 + 180		
0 250	5	+ 30 + 220	2.5	
0 300		<b>10</b> + 30 + 270		
0 400		+ 50 + 350		
0 500		+ 50 + 450		
0 600	10	+ 100 + 500	10	

#### Models

	Model	Nominal size	Location of stem / Case			
•	S 5550	100	Centre back /			
	S 5551	160	adjustable every angle			

The measuring range is indicated on the dial by two triangular marks.
Within this range the stated limit of error is valid according to DIN EN 13 190.

# **Dimensions**



Nominal size	Dimensions [mm]									Weight [kg]				
	alarm contacts of model								-					
		811 or 831 831.11												
	with	nout	1 or 2 3			3	831.22							
	b	b <sub>1</sub>	b	b <sub>1</sub>	b	b <sub>1</sub>	b	b <sub>1</sub>	d	$D_1$	$D_2$	F		
100	25	68	88	131	_	_	88	131	8 <sup>1)</sup>	101	99	68	0.500	
160	20	00	100	143	115	158	115	158	O	O	161	159	08	0.700

<sup>1)</sup> Option: stem diameter 6, 10, 12 mm

### **Design of connection**

#### **Connection 1**

Plain stem Length of stem I = 140, 200, 240 or 290 mm Stainless steel 1.4571 To fit compression fitting of connection 4

# **Connection 2**

Male nut G 1/2 B Length of stem  $I_1 = 80$ , 140, 180 or 230 mm Stainless steel 1.4571

### **Connection 3**

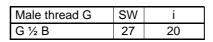
- Union nut G  $\frac{1}{2}$ , G  $\frac{3}{4}$  or M  $\frac{24}{x}$  1.5

Length of stem  $I_1 = 89, 126, 186, 226$  or 276 mm Stainless steel 1.4571

#### **Connection 4**

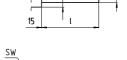
Compression fitting (sliding on stem) G 1/2 B, G 3/4 B, M 18 x 1.5, 1/2 NPT or 3/4 NPT Minimum insertion  $I_{min}$  approx. 60 mm Length of stem  $I_1$  = variable Length  $L = I_1 + 40 \text{ mm}$ Stainless steel 1.4571

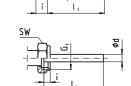
# Dimensions [mm]

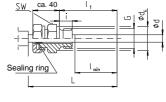


Female thread G <sub>1</sub>	SW	
G ½	27	8.5
G 3/4	32	10.5
M 24 x 1.5	32	13.5

Male thread G	SW	d4	i
G 1/2 B	27	26	14
G ¾ B	32	32	16
M 18 x 1.5	24	23	12
½ NPT	22	_	19
34 NPT	30	_	20







# 3073 050.04

# Ordering information

Model / Nominal size / Scale range / No. and size of connection / Length of stem I, I<sub>1</sub> / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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