

## Stainless steel bimetal thermometer

### Model FI

Nominal size: 3"(80mm), 4"(100mm), 5"(127mm), 6"(150mm)  
 Accuracy: Class 1 according to EN13190  
 Range: -70...30 °C to 0...600 °C

#### Features

- Rugged stainless steel construction
- Applies to harsh and aggressive environments
- Fast response
- External zero adjustment
- Dry or liquid filled

#### Applications

- Chemical and petrochemical industry
- Machine and apparatus construction
- Food and beverage industry
- Water treatment industry
- Pulp and paper industry



#### General

Dial size	3"(80mm), 4"(100mm), 5"(127mm),6"(150mm)
Construction	Cylindrical case with crimp ring, Hermetically sealed and external adjustment
Measuring Principle	Bimetallic coil
Range [°C]	-70...30 °C to 0...600 °C (Note: Ranges in °F and dual scale, or other specific range on request)
Overtemperature	130% F.S
Accuracy	Class 1 according to EN13190
Stem diameter	¼"(6.4mm), 6mm, 8mm, 10mm
Stem length	60...1000 mm, Minimum length depends on range Length > 1000mm on request

#### Material

Connector&Stem	SS 304, or SS 316L
Case	SS 304, or SS 316L
Window	Instrument glass, Safety glass
Dial	Aluminum, black marks ,white background
Pointer	Aluminum, black

#### Advantage

- Variety of connection types
- High IP grade up to IP67
- External adjustment
- High reliability and durable design

#### Process connection

Connection position	Back mount, Every angle
Connection type	Fix thread, Swivel thread, Sliding thread
Connection size	1/2NPT, G1/2, M20×1.5, M27×2 More connctions see coding table

#### Others

Ingress protection	IP66 (EN 60 529/IEC 529)
Case filling	Silicone oil (Maximum range up to 300 °C (ambient temperature maximum 65 °C)
Storage temperature	-50...70 °C
Ambient temperature	-40...70 °C
Certificates	Calibration report, Material certificates Other certificates on request
Accessories	Thermowells
Normal range	See coding table

**Coding Table**

40 = FI = L = 060 = E = 300 = -40/60 = C = SD08

**Dial Size**

30		3" (80 mm)	30
40		4" (100 mm)	40
50		5" (125 mm)	50
60		6" (160 mm)	60

**Model**

FI		Bimetal type	FI
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**Case filling**

		No filling	
L		Filled case	L

**Process connection**

060		Fixed 1/2NPT Male	060
062		Fixed 3/4NPT Male	062
065		Fixed M20X1.5 Male	065
061		Fixed G1/2A Male	061
103		Fixed M27X2 Male	103
090		Sliding M20X1.5 Male	090
070		Sliding 1/2NPT Male	070
071		Sliding G1/2A Male	071
097		Sliding M27X2 Male	097
072		Sliding 3/4NPT Male	072
111		Sliding 3/8NPT Male	111
087		Swivel M20x1.5 Male	087
080		Swivel G1/2A Male	080
088		Swivel M20X1.5 Female	088
081		Swivel G1/2A Female	081
204		Swivel M27X2 Male	204
206		Swivel M27X2 Female	206

**Mounting direction**

R		back	R
E		every angle	E

**Stem length**

60-1500 mm	60-1500
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**Range**

-50/50	-30/70	-10/50	0/150	0/500
-50/150	-20/40	0/50	0/160	0/600
-50/200	-20/80	0/60	0/200	
-50/300	-20/100	0/80	0/250	
-40/60	-20/120	0/100	0/300	
-40/80	-20/160	0/120	0/400	

**Unit**

C		°C	C
F		°F	F

**Option**

SD06		6mm stem	SD06
SD08		8mm stem	SD08
SD10		10mm stem	SD10
AN15		GB 1.5%	AN15
AN10		GB 1.0%	AN10
AN		±1% of span ASME B40.200 (B40.3 Grade A)	AN
NH		Tag plate	NH
SG		Safety glass	SG
YW		316L Case	YW
3L		316L connector & stem	3L
CD6		Material Certificate	CD6
C4		Calibration Report	C4