

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

FEATURES

- All stainless steel welded construction
- Standards followed EN 13190 / ASME B40.200
- Accuracy as per Class 1
- Dry / Fillable / Liquid filled



BIMETAL THERMOMETER, M200

DESCRIPTION

General

Design : EN 13190
Accuracy : ±1.0% of full scale
Ambient temperature : -20...+60°C
Over range limits : 110% full scale
Stem pressure rating : 25 bar (Without thermowell)
Weld joints : TIG argon arc welding

Material of construction

Sensing element : Coiled bimetal strip
Case & Ring material : AISI 304 SS
Stem material : AISI 316 SS
Process connection material : AISI 316 SS
Dial : Aluminum, black graduation on white background
Pointer : Zero adjustable, aluminum, black powder coated
 [Fix pointer for 50 mm]
Gaskets : Neoprene / NBR
Window : Sheet glass

Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C):
 max ±0.4% / 10K of full scale value.

Standard version

Dial size : 50 mm / 63 mm / 80 mm / 100 mm / 150 mm
Range : -50 up to 600°C
Mounting pattern : Direct Bottom connection
Stem size : 6.0 mm / 8.0 mm / 9.5 mm / 12 mm
Ingress protection : IP 65
Stem length : 150 mm standard up to 1000 mm
Process connection type : Adjustable connection
Process connection : ½" NPT (M) / ½" BSP (M)

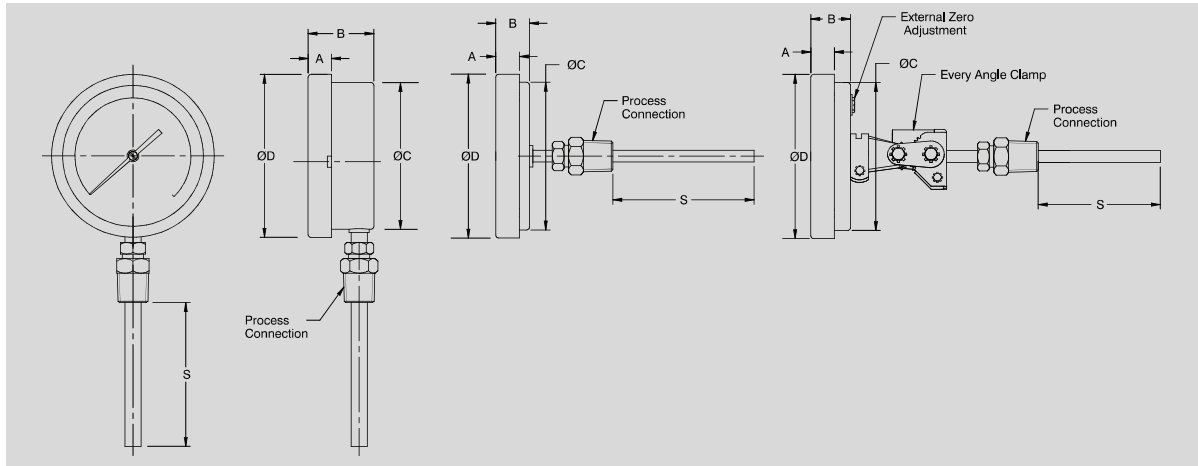
Filled versions

Glycerin
Window : Shatterproof safety glass
Dampening liquid : Glycerin 99.7% / 80% / 60%
 [Max temperature range limit 100°C]
Silicon Oil
Window : Shatterproof safety glass
Gasket, Blow off disc & filling plug : NBR / Viton
Dampening liquid : Silicon oil DC 200
 [Max temperature range limit 200°C]



Bimetal Thermometer M 200

DIMENSIONAL DRAWING



| NS | A | B | ØC | ØD |
|-----|-----|----|-------|------|
| 63 | 12 | 48 | 62.5 | 70 |
| 80 | 9.5 | 48 | 80 | 89.5 |
| 100 | 12 | 48 | 100 | 111 |
| 125 | 15 | 48 | 118.5 | 129 |
| 150 | 15 | 48 | 149 | 161 |

NOTES

- Drawing not to scale. All dimensions are in mm.
- For other mounting details, Panel cut-out dimensions, kindly contact factory.

ORDERING CODES

DIAL SIZE

| | | | | | |
|------------|-----------------|------------|--------------|------------|-------------|
| 050 | 2" / 50 mm | 063 | 2.5" / 63 mm | 100 | 4" / 100 mm |
| 115 | 4.5" / 114.3 mm | 125 | 5" / 125 mm | 150 | 6" / 150 mm |

MODEL

M200 Bimetal thermometer

MOUNTING

BT Direct bottom **CB** Direct center back **EA** Every angle center back entry

CONNECTION

2MN ¼" NPT (M) **3MN** 3/8" NPT (M) **4MN** ½" NPT (M)
2MB ¼" BSP (M) **3MB** 3/8" BSP (M) **4MB** ½" BSP (M)

CASE FILLING

D Dry **G** Glycerine filled **S** Silicon oil filled

STEM SIZE

B06 6 mm / 6.35 mm (¼") **B08** 8 mm **B10** 10 mm
B12 12 mm **B95** 9.5 mm

STEM LENGTH

XXXX Please mention stem length in 'Inch'

RANGE

32-212°F Please mention range required with the measurement unit
 [Magwell offer in all types of National & International measurement units, e.g. °C, °F, etc. with single or dual scales]

OPTIONAL EXTRAS

CS AISI 316 SS case & ring **DS** Dual scale marking **EZ** External zero adjustment (> 63 mm)
TP AISI 316 SS tag plate **CL** Custom Logo **CC** 5 - point calibration certificate

100

M200

BT

4MN

D

B06

4"

32-212°F

CC=TP

Ordering Example : 100=M200=BT=4MN=D=B06=4"=32-212°F=CC=TP

Rev 00

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