All stainless steel bimetal thermometer
Model BMT

Nominal size 63 mm, 100 mm, 115 mm or 150 mm
Accuracy: Class 1



Features

- Rugged stainless steel construction
- Fast response
- Protection IP65
- External zero adjustment
- Dry or liquid filled
- Silicone damped coil

Ranges

-50 ... 50 °C up to 0 ... 600 °C
-80 ... 120 °F up to 30 ... 1100 °F

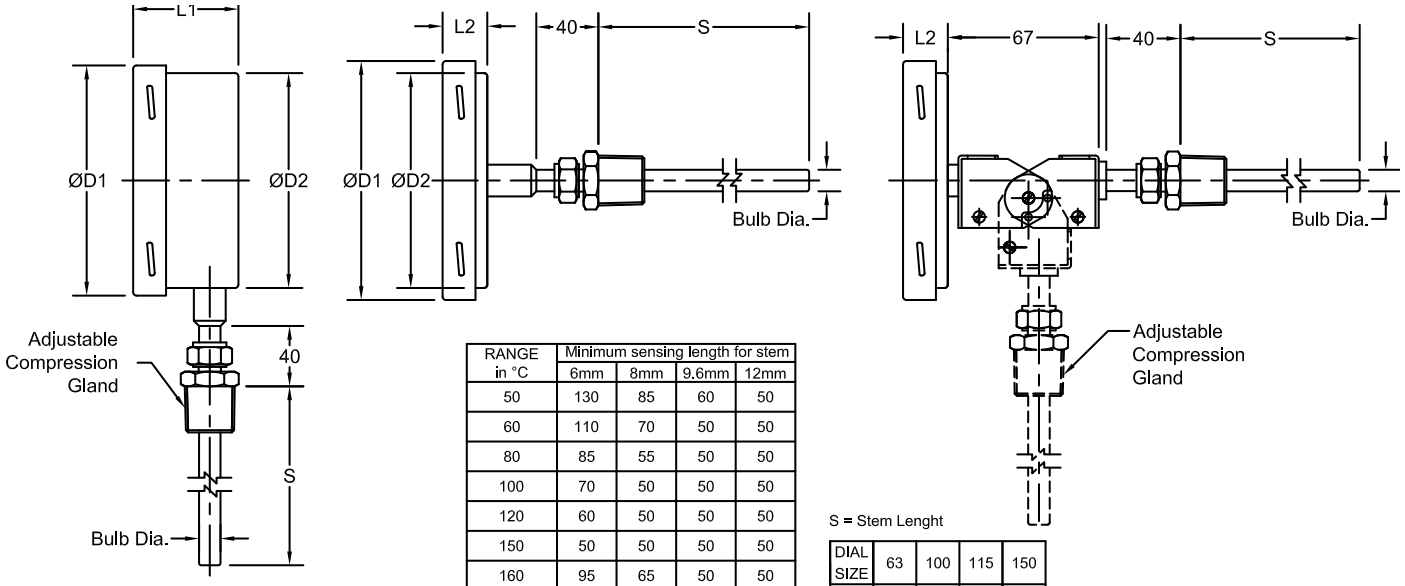
Applications

Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry

Technical specification	**BMT**			
Dial size	63mm	100 mm	115 mm	150 mm
Construction	Cylindrical case with bayonet ring			
Measuring principle	Bimetallic coil			
Range in °C	0/50 0/60 0/80 0/100 0/120 0/150 0/160 0/200 0/250 0/30 0/400 0/500 0/600 -10/50 -10/110 -20/40 -20/60 -20/180 -30/50 -30/70 -40/40 -40/60 -40/160 Ranges in °F and dual scales on request			
Temperature limits for ranges	≤500°C >500 °C			
Max. process over temperature	130 % of span 120 % of span			
Stem				
Diameter	6 mm, 8 mm, 10 mm, 12 mm			
Length	63 ... 1000 mm, minimum length depends on range, (refer chart)			
Process connection	Plain 1/2” 3/4” 1” BSP / NPT (M) fixed or adjustable			
Connection location	Back / Every angle (rotatable)	Lower / Back / Every angle (rotatable)		
Material				
Connection	Stainless steel 316			
Stem	Stainless steel 316L			
Case/ring	Stainless steel 304, optional 316L			
Window	Instrument glass, optional laminated safety glass			
Dial	Aluminum, black markings on white background			
Pointer	Aluminum, black			
Accuracy	Class 1			
Permissible				
Ambient temperature	-25 ... 60 °C			
Storage temperature	-40 ... 60 °C			
Protection	IP65			
Filling liquids	Silicone, not for lower connection, maximum range up to 300 °C			
Accessories, options	Thermowells, dual scale			

All specifications are subject to change without notice.

General dimensions in mm



RANGE in °C	Minimum sensing length for stem			
	6mm	8mm	9.6mm	12mm
50	130	85	60	50
60	110	70	50	50
80	85	55	50	50
100	70	50	50	50
120	60	50	50	50
150	50	50	50	50
160	95	65	50	50
180	90	60	50	50
200	75	55	50	50
250	65	50	50	50
300	55	50	50	50
400+	50	50	50	50

S = Stem Lenght

DIAL SIZE	63	100	115	150
ØD1	68.6	109	126.5	166
ØD2	61.6	98.5	114.5	152
L1	42.5	49	49	49
L2	21.5	23.5	23.5	25

Order information

Size	Stem diameter	Filling	Process connection		Connection orientation	Stem length	Range	Engineering unit	Options
(63) 63mm **(100)** 100 mm **(115)** 115 mm **(150)** 150mm	**(06)** 6 mm **(08)** 8 mm **(10)** 10 mm **(12)** 12 mm	**(=)** Standard (no filling) **(L)** Liquid filled with silicone max. up to 300 °C (not for lower connection, ambient temperature maximum 65 °C)	**(40)** Plain **(60)** Fixed 1/2 NPT (M) **(61)** Fixed 1/2 BSP (M) **(70)** Adjustable union 1/2 NPT (M) **(71)** Adjustable union 1/2 BSP (M) **(72)** Adjustable union 3/4 NPT (M) **(73)** Adjustable union 3/4 BSP (M) **(74)** Adjustable union 1 NPT (M)	**(75)** Adjustable union 1 BSP (M) **(76)** Adjustable union 1/2 NPT (F) **(77)** Adjustable union 1/2 BSP (F) **(90)** Adjustable union M20X1.5 **(110)** Adjustable union 1/4 NPT (M) **(112)** Adjustable union 3/8 BSP (M) **(113)** Adjustable union 1/4 BSP (M)	**(L)** Lower[2] **(R)** Back **(E)** Every angle	**63 to 1000 mm** (for minimum length refer above table)	**0 / 50** **0 / 60** **0 / 80** **0 / 100** **0 / 120** **0 / 150** **0 / 160** **0 / 200** **0 / 250** **0 / 300** **0 / 400** **0 / 500** **0 / 550** **0 / 600** **-10/ 50** **-10/ 110** **-20/ 40** **-20/ 60** **-20/ 180** **-30/ 50** **-30/ 70** **-40/ 40** **-40/ 60** **-40/ 160**	**°C** Others on request	**(NH)** Tagging wired **(DA)** Dial marking **(CS)** Dual scale **(SG)** Safety glass **(YW)** 316L housing **(EZ)** External zero adjustment[1]

1) For size 100mm, 115 mm and 150mm only, and not for connection orientation Lower. 2) Not for size 63mm

How to order

Size	Type	Stem diameter	Filling	Process connection	Connection orientation	Stem length	Range	Engineering Unit	Option
100	BMT	12	=	70	E	150	0/200	C	NH

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