

Badotherm bimetal model BDTE18 series thermometer is available as 80/100/125/160 mm. Due to the unique every angle system this thermometer can be used as bottom or back or any position required. The standard connection on these thermometers is an adjustable fitting in order to give more flexibility to stem length immersions.

stainless steel bimetal thermometer every angle

mounting variations

- type A bottom connection, direct mounting
- type C surface mounting, bottom connection
- type D back connection, direct mounting
- type E panel mounting, back connection
- type F panel mounting, bottom connection
- type BDTE every angle connection, direct mounting



BDTE18

technical specification model BDTE18

diameter	dial	window	ranges
80 to 160 mm	aluminium	glass	from -50/550 °C
casing	stem	element	connection
AISI304 bayonet	AISI316	coiled bimetal	1/2" bsp adjustable
bezel	stem dia	pointer	accuracy
AISI304 bayonet	6 mm	fixed	1.0% FSD

Note: zero correction is standard on the outside at the back of the casing

options and special executions at extra costs

casing	AISI316
bezel	AISI316
window	safety glass; plastic except 125 mm
dials	customized -i.e., non standard ranges or logos
certificates	calibration-; conformity-; material
manuals	installation and maintenance
pointer	adjustable slotted except 125 mm
connection	NPT, MM, BSPT, acc JIS in various sizes
connection type	fixed or without connection
connection position	top or side
drag-pointer system	for dia 100/160 mm (plastic window only, max 160 °C)
filling	glycerine, silicone, fluorolube up to 160 °C
stem diameters	1/4" / 3/8" / 1/2" / 8 mm / 10 mm / 12 mm



BDTE18 - technical data sheet

operating details

working range

limitations	
Permanent	measuring range per DIN 13 190
Short time (≤ 1 h)	1,1 x measuring range

temperature limitations

	ambient	process
without filling	-40 °C to 60 °C	-50 °C to 550 °C
glycerine filling	-25 °C to 60 °C	15 °C to 80 °C
silicone filling	-40 °C to 60 °C	-45 °C to 250 °C

pressure rating of stem

25 bar maximum

design information

ingress protection

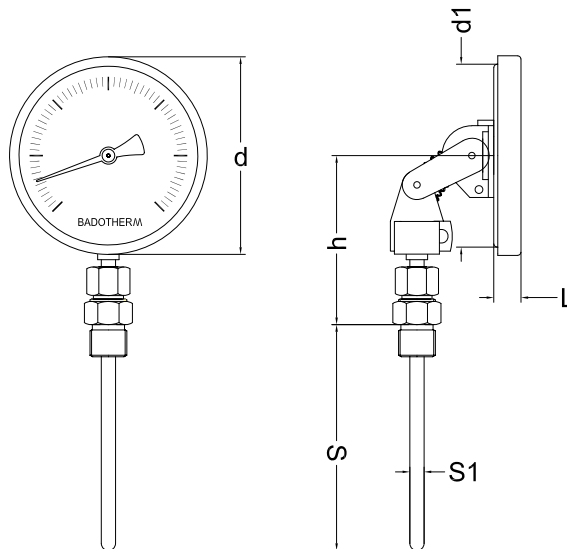
IP 54 per EN 60 529 / IEC 529

IP 65 per EN 60 529 / IEC 529 (liquid filling only)

design

DIN 13 190

drawings



type A

dimensions

ns	d	d1	L	h	S	S1	-
80	89	80	16	80	to specify	6	-
100	110,5	100,5	19	80	to specify	6	-
125	130	119	20	80	to specify	6	-
160	160	149	20	80	to specify	6	-

Note : dimensions are in mm

stainless steel bimetal thermometer minimum immersion lengths

range °C	span °C	min. immersion length (mm)
-20 + 40	60	100
-20 + 50	70	80
-20 + 60	80	63
-20 + 80	100	63
-20 + 100	120	63
-20 + 110	130	63
-20 + 120	140	50
-20 + 140	160	63
-25 + 40	65	80
-30 + 50	80	63
-30 + 70	100	80
-30 + 100	130	63
-40 + 60	100	80
-40 + 120	160	63
-50 + 50	100	80
-50 + 550	600	100
0 + 60	60	80
0 + 80	80	100
0 + 100	100	63
0 + 120	120	50
0 + 150	150	50
0 + 160	160	50
0 + 200	200	50
0 + 250	250	100
0 + 300	300	100
0 + 350	350	100
0 + 400	400	100
0 + 450	450	100
0 + 500	500	100
0 + 550	550	100

