

All stainless steel industry bimetal thermometer

Model TI-2100, TI-2200, TI-2300

Nominal size :63mm (not for Every Angle type), 100 mm or 160 mm
Accuracy: Class 1,0 to EN (100 mm and 160 mm)

Features

- Rugged stainless steel construction
- Fast response
- Protection IP65
- Antiparallax Maxivision® dial (model TI-2300)
- External zero adjustment (model TI-2300)
- Dry or liquid filled
- Silicone damped coil

Ranges

-50 ... 50 °C up to 0 ... 500 °C

Applications

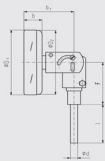
Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry



Technical specification	TI-2100, TI-2200-TI-2300					
	63mm		100 mm		160 mm	
Construction	Cylindrical case with bayonet ring					
Measuring principle	Bimetallic coil					
Range in °C	0/50 0/60 0/100 0/120 0/160 0/200 0/250 0/300 0/400 0/500		-20/60 -20/120 -30/70 -40/60 -50/50			
Temperature limits for ranges	Ranges in °F and dual scales on request					
Max. process overtemperature	< 120 °C		≥ 120 °C and < 290°C		≥ 290 °C	
Stem	100 % of span		50 % of span		max. 425 °C for continuous service	
Diameter	6 mm, 8 mm, 1/4" (6,4 mm), 3/8" (9,6 mm)					
Length	63 ... 1000 mm, minimum length depends on range					
Process connection	Plain G 1/2 A male, G 1/2 female, 1/2 NPT male or 1/2 NPT female G 3/4 A male, G 3/4 female, 3/4 NPT male or 3/4 NPT female G 1 A male, G 1 female, 1 NPT male or 1 NPT female, others on request Fixed, adjustable or with swivel nut					
Connection location	Back, lower and every angle (rotatable)					
Material	Stainless steel 316Ti (1.4571) Stainless steel 316Ti (1.4571) Stainless steel 304 (1.4301), optional 316L (1.4404) for model A Instrument glass, optional laminated safety glass or acrylic glass Aluminum, black markings on white background					
Pointer	Aluminum, black					
Accuracy	Class 1 (dry) and class 2 (liquid filled) according EN 13190					
Protection according EN 60 529/IEC 529	IP65					
Filling liquids	Silicone, not for lower connection, standard acrylic glass. Maximum range up to 300 °C (ambient temperature maximum 65 °C)					
Weight in kg			Every angle		Every angle	
Connection location	Back	Lower	0,55	0,7	0,9	0,9
Dry	0,35	0,55	0,55	0,7	0,9	0,9
Filled	0,6	---	0,8	1,0	---	1,2
Accessories, options	Thermowells, dual scale, calibration certification					

General dimensions in mm

Adjustable stem and dial



Location of stem

Centre back
(up to 250 °C)



Centre back with spacer
(from 300 °C or on request)



Radial bottom



NS	Dimensions in mm					Weight in kg				
	b1	b2	f	b1	b2	Ø D	f	RD	Ø	
63	29	30 1/2	46	34	13	65	47	0.360	0.290	0.220
100	36	30 1/2	52	40	13	100	66	0.230	0.290	0.220
160	39	30 1/2	57	42.5	13	160	90	0.450	0.490	0.560

1) From 300 °C or on request

R Location of stem centre back
RD Location of stem centre back with spacer
Ø Location of stem radial bottom

NS	Dimensions in mm					Weight in kg	
	b1	b2	d1	Ø D1	Ø D2	f	
100	29	36	6	101	90	66	0.5
160	29	66	6	161	159	66	0.7

© Ohaus Stem diameter 0, 10, 15 mm

Order information

Size	Type and stem execution	Filling	Process connection	Connection orientation	Stem length	Range	Engineering unit	Options
(63) 63 mm	Metric housing with bayonet ring (IP65)	(=) Standard (no filling)	(P) Plain	(B) Back TI-2100	63 to 1000 mm	0/ 50 ° 0/ 60 ° 0/ 100 ° 0/ 120 ° 0/ 160 ° 0/ 200 ° 0/ 250 ° 0/ 300 ° 0/ 400 ° 0/ 500 ° 10/ 150 ° -10/ 50 ° -20/ 60 ° -20/ 120 °	°C	(TW) Tagging wired (DM) Dial marking (S) Stepped stem (DS) Dual scale (AG) Acrylic glass (SG) Safety glass (R) Red set hand stationary
(100) 100 mm	(A) 6 mm	(L) Liquid filled with silicone max. up to 300 °C (not for lower connection, ambient temperature maximum 65 °C)	(U) Union outlet ½ NPT male	(L) Lower TI-2200				(316L) 316L (1.4404) housing (not for lower housing and size 3")
(160) 160 mm	(B) 8 mm (C) ½" (6,4 mm) (D) 3/8" (9,6 mm)		(F) Fixed ½ NPT male (A) Adjustable union ½ NPT male	(E) Every 1° Angle TI-2300				

Order example

Size	Type and stem execution	Filling	Process connection	Connection orientation	Stem length	Range	Engineering unit	Options
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