

APPLICATIONS

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

SPECIAL FEATURES

- Rugged all welded stainless steel construction
- Protection IP65
- Optional external adjustment permits zero reset from outside the case.
- Dry or liquid filled
- Silicone coil dampening provides vibration dampening and improves response time

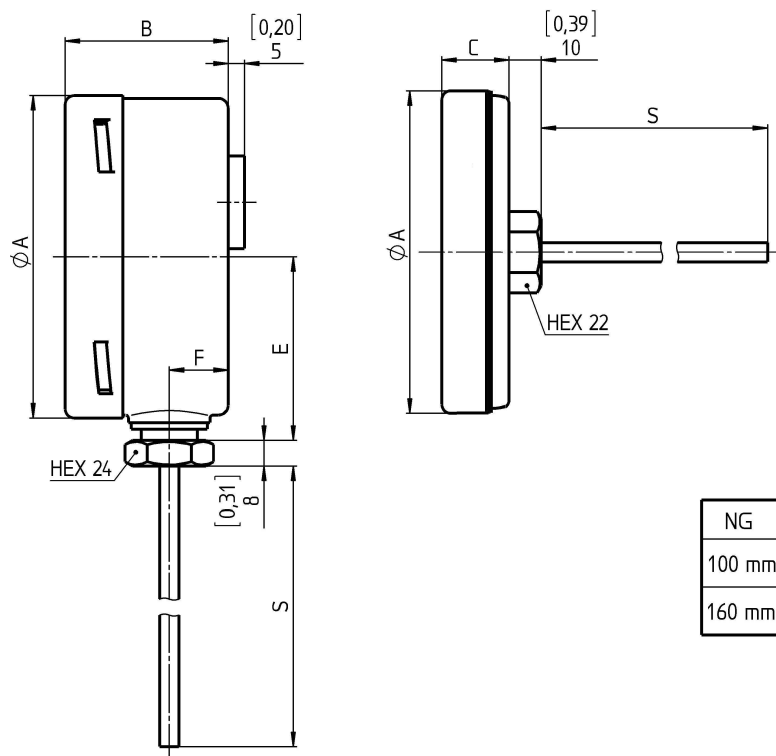


DESCRIPTION

- Rugged design for OEM applications
- Cost effective for high volume applications
- Retrofits existing applications
- Customizable for new applications

Technical specification		TZ80,TZ81					
Dial size		100 mm			160 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 0/300 0/400 0/500					
Ranges in °F		10/150 50/300 50/450 100/500					
		-10/50 -10/110 -20/40 -20/60 -20/80 -20/120 -20/180					
		-25/25 -30/50 -30/70 -40/40 -40/60 -40/160 -50/50					
		0/100 0/150 0/200 0/250 0/300 0/350 0/500 20/120 30/130 30/240					
		50/300 50/400 50/550 80/180 100/800 160/360 170/270 200/400 200/700 200/1000					
Temperature limits for ranges		-40/120 -40/160 -20/120 -80/120 -10/100					
		Dual scales on request					
		< 120 °C ≥ 120 °C and < 290°C ≥ 290 °C					
Max. process overtemperature		20%of span 20%of span 20% of span					
Max. ambient temperature		94 °C with dry case, 65 °C with liquid filling					
Stem							
Diameter		6 mm, 8 mm, ¼" (6,4 mm), 3/8" (9,6 mm)					
Length		63 ... 1000 mm, minimum length depends on range					
Process connection		Plain G ½ A male, G ½ female, ½ NPT male or ½ NPT female G ¾ A male, G ¾ female, ¾ NPT male or ¾ 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							
Connection		Stainless steel 316L (1.4404) or 1.4571 (316Ti)					
Stem		Stainless steel 316L (1.4404) or 1.4571 (316Ti)					
Case/ring		Stainless steel 304 (1.4301), optional 316L (1.4404)					
Window		Instrument glass, optional shatter proof glass or acrylic glass					
Dial		Aluminum, black markings on white background					
Pointer		Aluminum, black					
Accuracy		KL1.0,KL1.6,KL2.5					
Protection according EN 60 529/IEC 529		IP65					
Filling liquids		Silicone, not for lower connection, not for ATEX, acrylic glass is standard Maximum range up to 300 °C					
Weight in kg							
Connection location		Back	Lower	Every angle	Back	Lower	Every angle
Dry		0,35	0,55	0,55	0,7	0,9	0,9
Filled		0,6	---	0,8	1,0	---	1,2
Accessories		Thermowells must be used on all pressure or velocity applications, to protect the stem of thermometer from corrosion and physical damage, and to facilitate removal of the thermometer without disturbing the process.					

GENERAL DIMENSIONS in mm



NG	A	B	C	E	F
100 mm	[3,98] 101	[2,01] 51	[0,83] 21	[2,24] 57	[0,73] 18,5
160 mm	[6,38] 162	[1,97] 50	[1,10] 28	[3,46] 88	[0,67] 17

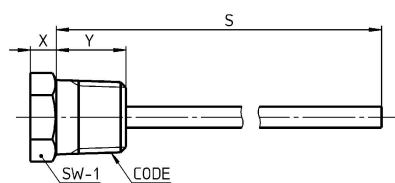
Fixed connection

Length S is fixed.

Code N ½ NPT male

Code G G ½ A male

Code M M20X1.5 male



CODE 1/2-14 NPT	SW-1	X	Y
L	24	8 [0,31]	20 [0,79]
E	22	9,8 [0,39]	20 [0,79]
R	22	7,5 [0,30]	20 [0,79]
CODE G 1/2 A L/E/R	SW-1	X	Y
	27	12 [0,47]	12 [0,47]