



INDUSTRIAL THERMOMETER TPS, TPZ, TPO

diameter 63, 80, 100, 160mm
bottom, back,
turning connection

DESCRIPTION:

- bayonet or encapsulated case
- stainless steel stem 17 248/1.4541
 - glass inspection hole
- threadless or threaded connection
- bottom connection TPS, back connection TPZ, turning connection TPO

APPLICATION:

- heating industry
- petrochemically industry
 - food industry
 - cooling industry
- pharmaceutical industry
 - hydraulics

TECHNICAL PARAMETERS:

- diameters: 63, 80, 100, 160mm
- temperature ranges: -40+40, -40+60, -30+50, -20+50, -20+40, -20+60, 0-60, 0-80, 0-100, 0-120, 0-160, 0-200, 0-250, 0-300, 0-350, 0-400, 0-500°C
- stem lengths: 50, 60, 100, 160, 200, 250, 400mm
- connection threads: G1/4, G1/2, G3/4, G1, M18x1,5, M20x1,5, M24x1,5, M24x1,5, M27x2, 1/2NPT, 3/4NPT
 - accuracy: class 1
 - protection: IP 65
- choice if silicon or glycerine filling

SPECIFICATION:

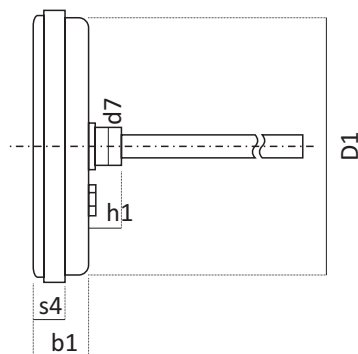
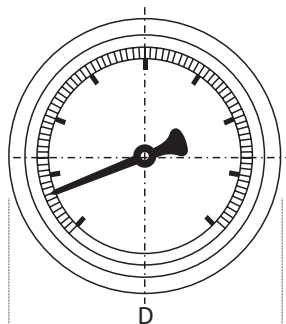
Industrial thermometers TPS, TPZ, TPO are the highest series from all bimetallic thermometers, which can be used in very demanding conditions. The stem may be exposed to pressures up to 25bar, for higher pressures it is required to use a well.

Industrial thermometers are supplied in wide range of designs with choice of connectors. Case in bayonet or encapsulated design, other optional accessories: silicone or glycerine dampers, max. pressure needle, lazy needle, etc.

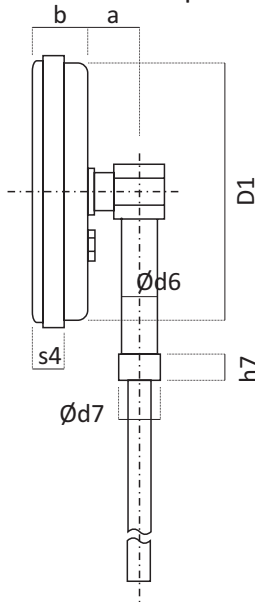
A well must be used if it is necessary to protect the stem from high pressures or aggressive agents. Standard wells are available - steel PN6, stainless steel PN25 and PN40, then special wells for high parameters according to DIN or ON standards.

	TPS	TPZ	TPO
Connection	bottom	back	turning
Diameters	63, 80, 100, 160mm		
Temperature ranges	-40+40, -40+60, -30+50, -20+50, -20+40, -20+60, 0-60, 0-80, 0-100, 0-120, 0-160, 0-200, 0-250, 0-300, 0-350, 0-400, 0-500°C		
Accuracy	1% according to DIN 16203		
Case	stainless steel bayonet /encapsulated stainless steel		
Connection	bare, union nut or external thread		
Stem	D= 6, 10mm, L=50-400mm, stainless steel 17.248/1.4541		
Stem thread	G 1/4, G1/2, M 20x1,5, M 20x1,5, M24x1,5, G 3/4, M27x2, G1, 1/2 NPT, 3/4NPT, M 18x1,5		
Type of thermowell	depending on connection see thermowell catalogue		
Damping	glycerine filling (up to 100°C), silicone damping (up to 250°C)		
Protection	IP65 (EN 60529/IEC529)		
Working pressure	max PN25 on the stem (must be equipped with a well with pressures over PN25)		

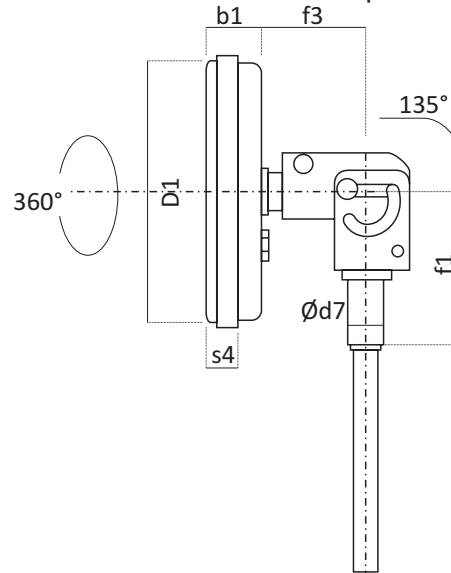
• TPZ - encapsulated



• TPS - encapsulated

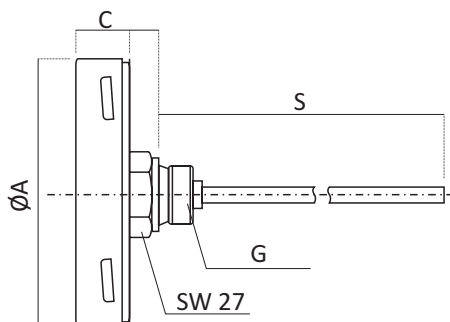


• TPO - encapsulated

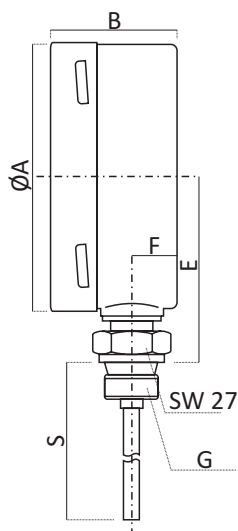


Dimensions in mm																	[kg]		
Nsize	a	b	b1	D	D1	d6	d7	h1	h2	h3	h7	h8	h9	s4	f1	f2	f3	unfilled	filled
63	18,5	17	17	67	62	12	14	12,5	19	40	10,5	55	70	8	63	80	40	0,18	0,20
80	18,5	18	18	86	79	12	14	1,5	19	40	10,5	65	80	8	63	80	40	0,22	0,27
100	18,5	18	18	106	98	12	14	12,5	19	40	10,5	90	90	10	63	80	40	0,29	0,37

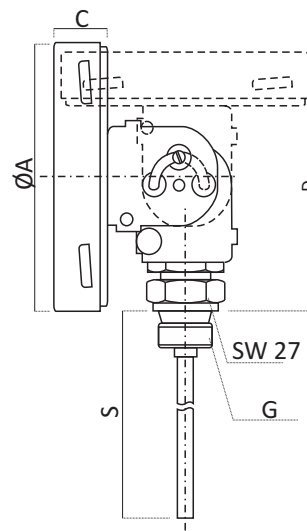
• TPZ - bayonet case



• TPS - bayonet case

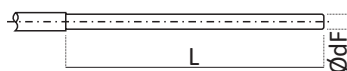


• TPO - bayonet case

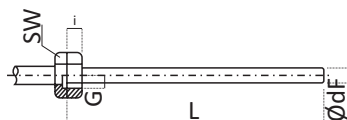


N.size	Dimensions in mm							[kg]	
	A	B	C	D	E	F	G	unfilled	filled
100	101	54	21	94...103	65...73	18,5	see table	0,34	0,41
160	162	53	28	101...110	95...101	17	see table	0,43	0,50

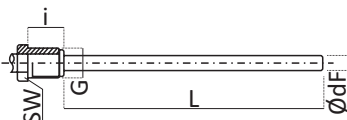
• threadless connection



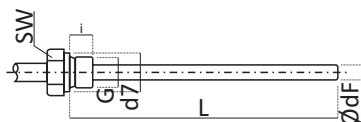
• union nut



• turning connection



• fixed connection



• sliding connection

