

PRESSURE STEM TTS THERMOMETER

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



DESCRIPTION:

- bayonet stainless steel case 17 240/1.4301
- stainless steel stem 17 248/1.4541; 17 348/1.4571
 - glass inspection hole, safety glass
 - individual stem lengths, connections and other design features
- back, bottom and bended connection

APPLICATION:

- food industry
 - hydraulics
- petrochemical industry
 - cooling industry
- light and heavy industry
 - farmaceutical industry

TECHNICAL PEARAMETERS:

- case diameters: 63, 80, 100, 160mm
- temperature ranges: -40+40, -40+60, -30+60, -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, 0-600°C
- stem lengths: 125, 160, 200, 250, 315, 400, 500, 1000mm, individual
- stem diameters: 6, 8, 10mm, individual
 - accuracy: $\pm 1\%$
 - protection: IP 65

SPECIFICATION:

Pressure thermometers use for measuring a closed pressure circuit with Bourdon tube. Compared to bimetallic thermometers, this system is remarkable for its higher accuracy, stability and resistance. They may be used in all kinds of operations due to the wide range of types and versions. Its accuracy is reached even in very demanding conditions.

Pressure thermometers come in wide range of designs. You may choose from various connections: threadless, with union nut, fixed or turning outer thread. Case is made of steel or stainless steel. Choose from other accessories: silicone or glycerine damping, magnetic or inductive contacts, indication needle, lazy needle, etc. Specify the pressure thermometer features in the order by modification of the order code, see technical page.

ORDER CODE

Code		A	B	C	D	E	F	G	H	I	J	K	L	M	N
Version	TTS														

Case dimensions mm		Code A
Diameter	Height	
63	45	1
80	45	2
100	50(85)	3
160	50(100)	4

Temper. range °C	B	C
-40+40	0	1
-40+60	0	2
-30+50	0	3
-20+40	0	4
-20+60	0	5
0-60	0	6
0-80	0	7
0-100	0	8
0-120	0	9
0-160	1	0
0-200	1	1
0-250	1	2
0-300	1	3
0-350	1	4
0-400	1	5
0-500	1	6
0-600	1	7
individ. requirements	1	8

Case version	Code D
steel	1
st. steel 17 240/1.4301	2

Accessories	Code E
none	0
compensatory	1
glycerine damper	2
silicone damper	3
indication needle	4
lazy needle	5
magnetic contacts	6
inductive contacts	7
contact type:	8
contact type: 1 Max	8a
contact type: 1 Min	8b
contact type: change-over	8c
contact type: Min/Max	8d

Accessories	Code E
contact type: Max/Max	8e
contact type: Min/Min	8f
contract:change-over/ch-c	8g

Stem length mm	Code F
125	1
160	2
200	3
250	4
315	5
400	6
500	7
1000	8

Stem diameter mm	Code G
6	1
8	2
10	3

Stem connection mm	Code H
bottom	1
back	2
adjustable	3

Stem bent	Code I
straight	1
left/right	L / P
back	3

Connection type	Code J
bare	0
union nut	1
fixed outer thread	2
turning outer thread	3

Stem thread	Code K
none	0
G1/2	1
G3/4	2
G1	3
M18x1,5	4
M20x1,5	5
M24x1,5	6
M27x2	7
M30x2	8
M33x2	9

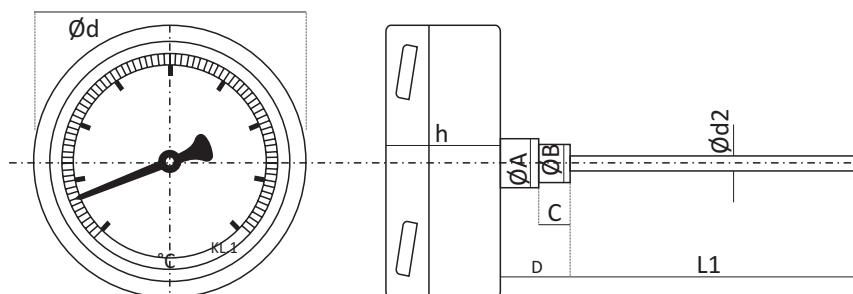
Stem version	Code L
brass	1
st. steel 17 348/1.4571	2

Well type	Code M
none	0
sliding thread socket	1
standard well	2
high pressure	3
individ. requirements	4

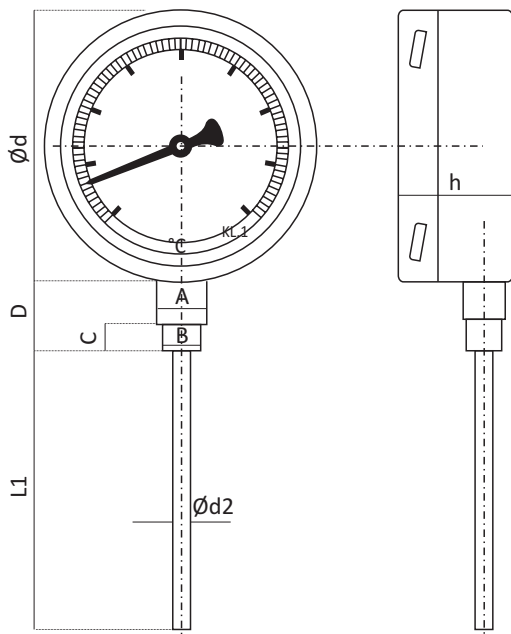
Thermowell thread	Code N
G1/2	1
G3/4	2
G1	3
M18x1,5	4
M20x1,5	5
M24x1,5	6
M27x2	7
M30x2	8
welding cone	9
individ. requirements	10

	TTS	TTS
Connection	bottom	back
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, 0-600°C	
Accuracy	1% according to DIN 16203	
Case	bayonet, stainless steel 17 240/1.4301	
Connection	bare, union nut, fixed or turning outer thread	
Stem	brass, stainless steel 17 348/1.4571	
Stem thread	G1/2, G3/4, G1, M18x1,5, M20x1,5, M24x1,5, M27x2, M30x2, M33x2	
Thermowell type	depending on connection, see catalogue page Thermowells	
Damping	glycerine filling (up to 100°C), silicone damping (up to 250°C)	
Protection	IP 65 (EN 60529/IEC529)	

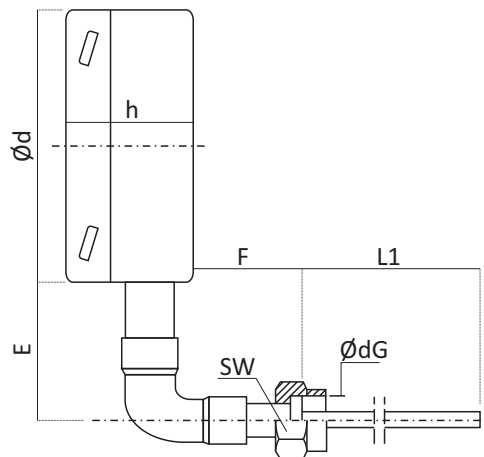
• TTS - back connection



• TTS - bottom connection

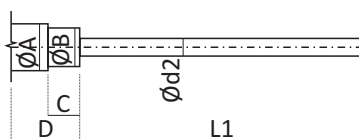


• TTS - bended bottom connection

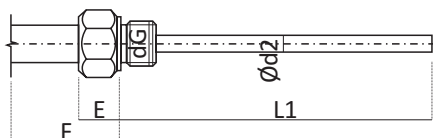


Dimensions in mm									
Type	A	B	C	D	E	F	d	L1	h
TTS	18	14	10	25	50	40	63,80,100,160	125-1000mm	42

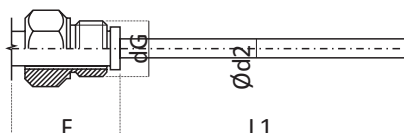
- threadless connection



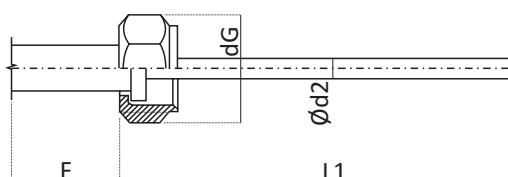
- fixed connection



- turning connection



- union nut



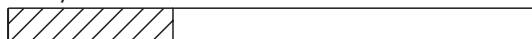
Dimensions in mm					
A	B	C	D	L1	d2
18	14	10	25	125-1000	6, 8, 10

CONTACTS:

Contact wiring diagram:

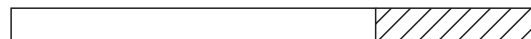
max. voltage 230V
max. load 30W

MIN / contacts:



Electric circuit is switched-on in the black section.
When reaching the preset temperature
the circuit is disconnected.

MAX /contacts:



Electric circuit is switched-on in the black section.
When reaching the preset temperature
the circuit is connected.

Contact versions:

1x Min
1x Max
1x change-over

Min/ min
Min/ max
Min/ change-over

Max/ min
Max/ max
Max/ change-over
change-over/ change-over

Contact types:

- magnetic
- inductive