

Gas filled Thermometers TSM Ø 63 - 80 - 100 - 160

Application	Industrial thermometer for remote measurement
Temperature Range	-200 ... 800°C
Accuracy	according DIN 16 203 Class 1
Dial	White, graduation black DIN 16 109, 16 128 For graduation marking and layout see T0.305
Pointer	Aluminium, alloy black, DIN 16 099
Zero point correction device	At the back or at the side of the case
Window	Normal glass Polycarbonate for auxiliary units with adjusting device
Protection	IP 67 according DIN 40 050
Accessories	For screw connections and protection pipes see T6.115, T6.215 (Ø 8) or T6.120 resp. T6.220 (Ø 14)



Selection chart

Ordering TSME xxx / xxx.xxx

System design							
with electrical contact	TSME						
Nominal size²⁾							
NS 63 ¹⁾	63						
NS 80 ¹⁾	80						
NS 100	100						
NS 160	160						
Case and Ring							
Stainless steel 1.4301, bright drawn	2						
Structural shape							
Direct mounting	1						
Panel mounting A, front flange	2						
Wall mounting, 3 brackets	3						
Wall mounting with gauge clamp	6						
Capillary tube outlet³⁾							
Bottom	1						
Center back (only with structural shape 2)	2						
Indication / Immersion tube							
Standard / Ø 8, stainless steel 1.4541	1						
Standard / Ø 14, stainless steel 1.4541	7						
Capillary tube / Material							
Stainless steel 1.4541 Cap. tube Cu-Leg. up to 250°C	40						
Stainless steel 1.4541 Cap. tube Cu-Leg. PVC up to 250°C	50						
Stainless steel 1.4541 Cap. tube st. steel 1.4541	60						
Stainless steel 1.4541 Cap. tube st. steel 1.4541 PVC	70						
Stainless steel 1.4541 Capillary tube steel	80						
Stainless steel 1.4541 Capillary tube steel/PVC	90						

Range

Order No.	Range °C	Order No.	Range °C
69T	-200 ... 50	12T	0 ... 100
77T	-120 ... 40	20T	0 ... 120
76T	-100 ... 60	13T	0 ... 160
74T	-80 ... 40	22T	0 ... 200
50T	-60 ... 40	14T	0 ... 250
65T	-40 ... 40	23T	0 ... 300
61T	-30 ... 30	15T	0 ... 400
51T	-30 ... 70	25T	0 ... 500
54T	-20 ... 60	16T	0 ... 600
52T	-20 ... 40	82T	0 ... 800
11T	0 ... 60		

Capillary tube length I 9000 / xxxx

Capillary tube length CT 9000 / xxxx

1 2 3 4 6 10 16 25 m
Ordering code for Immersion tube/Cap. tube
Length: mm. tube in cm: (example: I = 2 m)
Length CT in cm (example: CT = 3 m)

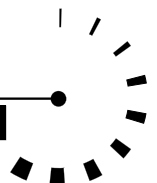
Special designs and electrical auxiliary units

For special designs see T2.905
Electrical contacts and connections see section T4

Notes:
1) Electrical contacts not available.
2) Other sizes on request.
3) Kink prevention standard.

**BOURDON
HAENNI**

made to measure



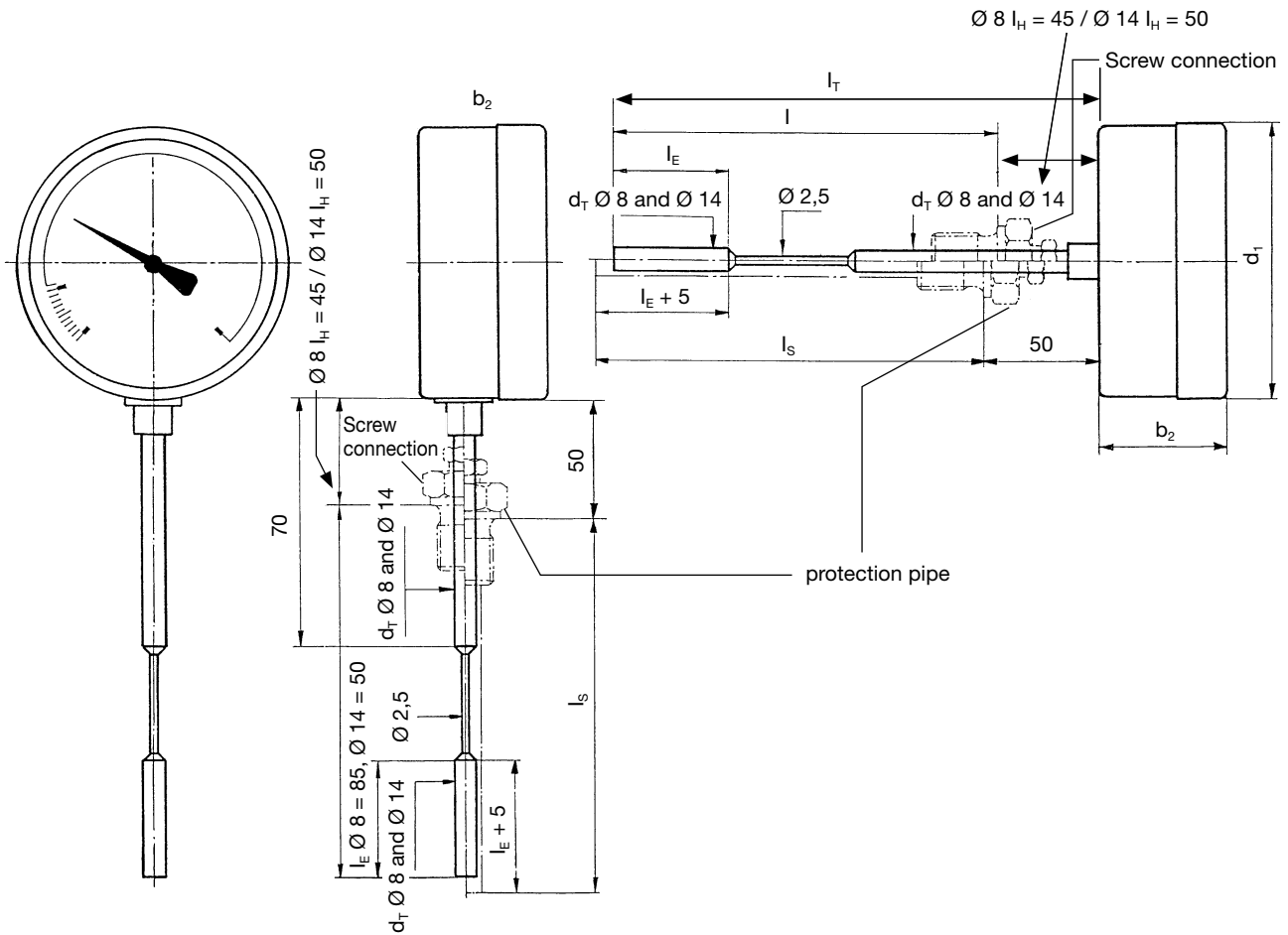
Dimensions

Direct mounting, bottom

Structural shape/Immersion tube outlet 11

Direct mounting, center back

Structural shape/Immersion tube outlet 12



Application Notes

The instruments operate within the specified accuracy only if the minimal immersion depth l_E is adhered to.

The case must not be heated above 110°C by the heat given off. When there is no insulation between assembly point and case, the distance between the case and screw connection or protective pipe must be increased.

Measurements

NS	b_2	d_T
63	38	64
80	38	82
100	$48^{\pm 2}$	100
160	$48^{\pm 2}$	160

l_E for $\varnothing 8 = 85$ mm

l_E for $\varnothing 14 = 50$ mm