

General features

- Gas expansion thermometer
- Case and stem of stainless steel
- Degree of protection IP65
- Temperature ranges from -20...+40 to 0...600 °C

Application area

- The stainless steel gas expansion thermometer is specially intended for remote temperature measurement in the following industries: Petrochemicals, Chemicals, Food, Pharmaceuticals and Biotechnology. The instruments meet the highest standards of measurement technique.



General specification

Dial Size

75mm, 100mm, 150mm

Temperature ranges

From -40 °C up to +600 °C

Accuracy

±2.0 % of F.S

Stem Dia

8mm

Stem Length

Min & Max: depend on temperature range

Material

Case: st. steel 304
 Dial face: Aluminium
 Window: Industrial glass
 Pointer: Aluminium in black
 Stem: st. steel 304 / st. steel 316
 Connection: st. steel 304 / st. steel 316

Connection

Standard PT1/2"(R1/2")
 Others on request

Degree of protection

IP 65

Scale-, measuring ranges
 limits of error per EN 13190, class2

Scale range °C	Scale spacing °C	Measuring range °C	Limits of error	
-20...+40	1	-10...+30	2	
-20...+60		-10...+50		
-20...+120		-10...+110	4	
-30...+30		-20...+20		
-30...+50		-20...+40	2	
-30...+70		-20...+60		
-40...+40		-30...+30		
-40...+60		-30...+50		
0... 60			10...50	5
0... 80			10...70	
0... 100		10...90		
0... 120	2	10...110	4	
0... 160		20...140		
0... 200		20...180	10	
0... 250	5	30...220		
0... 300		30...270		
0... 400		50...350		
0... 500	50...450	15		
0... 600	10		100...500	

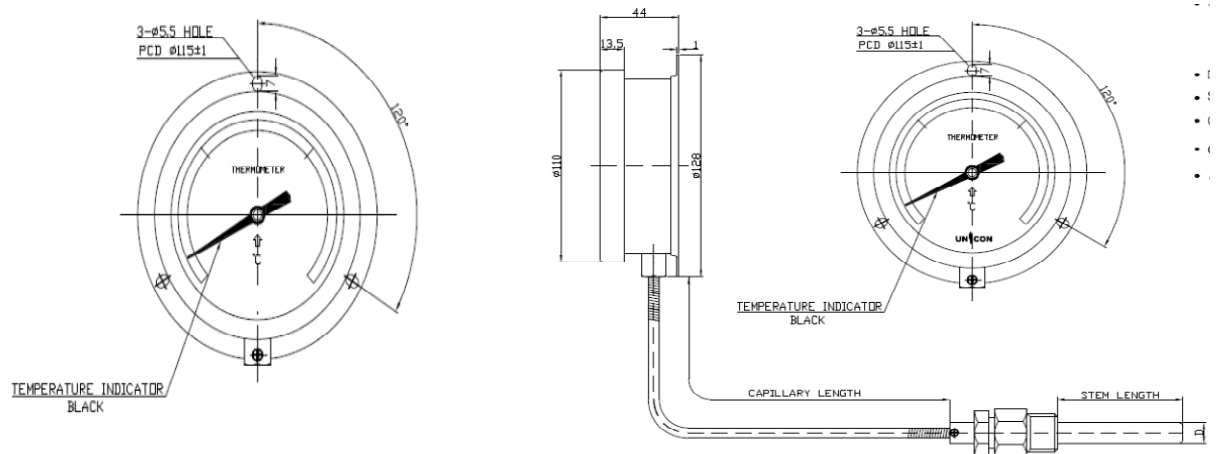
Optional extras

- Liquid filling (upto 200°C)
- Scale °F, K; dual scale °F/°C, °C/°F or other
- Radial connection other than bottom
- Plain stem or thread other than PT1/2"
- Stem 10 or 12 mm diameter
- Window of safety glass
- Thermowells per DIN / EN or to user specification
- Accuracy ±1 % F.S for 100mm, 150mm

- Other scale ranges
- Case, Stem, connection: st.steel 316

Dimensions

[Capillary type]



Order Details

Gas Expansion Thermometer		TMG
Dial size	75mm	4
	100mm	5
	150mm	7
Type	Back	D
	Bottom	A
	Capillary 2m	C
Process connection	without screwing	C0
	shanks, fixed PT 1/4"	R4
	shanks, fixed PT 1/2"	R2
	shanks, fixed PT 3/8"	R38
	shanks, fixed PF 1/4"	G4
	shanks, fixed PF 1/2"	G2
	shanks, fixed PF 3/8"	G38
Specific connection	00	
Stem diameter	8 mm	D8
	10 mm	D10
	12 mm	D12
Immersion length, l1	standard immersion length to be specified, e.g. l1 80mm: order code 080	999
Measuring ranges	as per table	...

Options / additional features

Liquid filling		LF
Dual scale		DS
Window	Safety glass	SG
Other scale ranges		OS
Marking	on scale (please specify)	GR

** Please give additional specification for models not listed.