

### General features

- Gas expansion thermometer with Pt100 electrical output signal
- Two independent measuring systems in one instrument
- 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

### 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

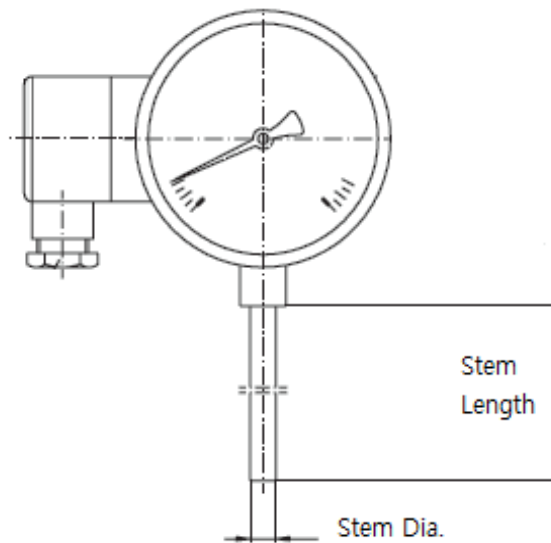


Scale-, measuring ranges  
 limits of error per EN 13190, class2

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	
0... 80		10...70	
0... 100	10...90	4	
0... 120	10...110		
0... 160	20...140		
0... 200	2	20...180	4
0... 250		30...220	
0... 300	5	30...270	10
0... 400		50...350	
0... 500		50...450	
0... 600		100...500	
0... 600	10	100...500	15

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

## Dimensions



## Order Details

Gas Expansion Thermometer		TMG-Pt100	
Dial size	75mm	4	
	100mm	5	
	150mm	7	
Type	Back	D	
	Bottom	A	
	Capillary 2m	C	
Process connection	without screwing	C0	
	shanks, fixed PT1/4"	R4	
	shanks, fixed PT1/2"	R2	
	shanks, fixed PT3/8"	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.