



## GAS - IN METAL THERMOMETER

Type G4: All stainless steel construction

### Service Intended

Suitable for media such as air, water, oil, gas, and chemicals that will not attack stainless steel parts. Typical applications will be in a general industrial heating, air-conditioning, food, petroleum, and chemical industry. Vibration resistant.

### Nominal Case Sizes

100, 150 and 250mm diameter.  
63 & 80mm on request.

### Case Material

Stainless Steel.

### Stem Location

Bottom or rear mount, fixed or adjustable angle. With or without mounting flange. See "Mounting Configuration".

### Stem

To suit application. See "Standard stem and fitting sizes". Rigid stem or flexible capillary mounting for remote reading. Max pressure w/o thermowell 2500 kPa.

### Capillary

Dia 2.5mm. Maximum length 50m. Sprague optional.

### Thermowell

Fabricated thermowell maximum pressure 16 MPa  
Solid machined thermowell maximum pressure 60 MPa.

### Bezel

Nitrile Rubber self sealing type.

### Window

Glass or plexiglass. Plexiglass recommended for food applications.

### Dial

White aluminium. Black lettering. Other options on request.

### Pointer

Black aluminium.

### Sensing Element

Bourdon tube, inert gas expansion system.  
Non-toxic.

### Working Range

Steady: Full scale value.  
Short period: 130% of full scale value.

### Accuracy

Class 1 ( 1% of full scale value )

### Weather Protection

IP 65 water and weather proof.

### Liquid Filling

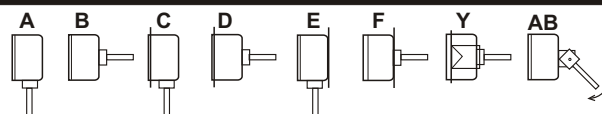
Glycerine or silicone filling, depending on temperature range.

### Optional Extras

Calibration Certificate  
Customized scale plates ( customer logo, red line, etc )  
Special Dials, other than standard ( dual scale, bar, psi )  
Single or double electrical contacts  
Colour Coding of dial  
Drag pointer ( maximum set pointer )  
Micro adjustable pointer



### MOUNTING CONFIGURATIONS



- A:** Bottom connection, no flange  
**B:** Rear connection, no flange  
**C:** Bottom connection, front flange  
**D:** Rear connection, front flange  
**E:** Bottom connection, rear flange  
**F:** Rear connection, rear flange  
**Y:** Rear con. narrow front ring (clamp mtg)  
**AB:** Rear connection. Every angle (adjustable)

Optional: All configurations available with flexible capillary for remote reading

### STANDARD PRESSURE RANGES

Scale range °C	Figure interval	Minor graduations
-30...0...+50	20	2
-30...0...+70	20	2
-20...0...+100	20	2
0...60	10	1
0...100	20	1
0...120	20	1
0...160	20	2
0...200	50	5
0...300	50	5
0...400	100	10
0...500	100	10
0...600	100	10
50...650	100	10

Other ranges on request

### STANDARD STEM AND FITTING SIZES

**Stem dia and length including thread** : 12mm dia x 100, 150, 200, 250, 300mm long (Sensitive L= 45mm)  
: 10mm dia x 120, 150, 200, 250, 300mm long (Sensitive L= 65mm)  
(standard sizes, other sizes on request.) : 8mm dia x 160, 200, 250, 300mm long (Sensitive L= 105mm)  
: 6mm dia x 300mm long (Sensitive L= 235mm)

**Standard connection** : 1/2" BSP or NPT male

**Optional thread sizes** : 1/4", 3/8", 1/2", and 3/4" in BSP or NPT

**Optional conn types** : Plain stem (no thread)

: Sliding compression fittings (to adjust length of insertion)

: Male or female swivel nut with weld-on collar

: Hygienic flange mounting for the food and beverage industry