

Gas filled thermometers for chemical applications



Application

For corrosive media. Meets exacting measuring demands, e.g. in chemical, process technology and food industry applications.

Type

D4

Nominal size

100 – 160

Measuring principle

Pressurised gas filling

Accuracy class

1 (EN 13190)

Ranges °C

-20/60, 0/60, 0/120, 0/160, 0/200, 0/300, 0/400, 0/500

Working temperature

Continuous: full scale value

Short-term: 1.1 x full scale value

Operating pressure at thermowell

Max. 10 bar (up to 300 °C)

Protection

IP 65 (EN 60529)

Standard version

Connection

Stem stainless steel 1.4541, 100 x 10 mm, plain

Mounting position

Centre back or bottom, with joint

Dial

Aluminium, white
Dial marking black

Pointer

Aluminium, black

Zero correction

At side of housing

Movement

Brass

Housing

Stainless steel 1.4301

Bayonet type bezel

Stainless steel 1.4301

Front glass

Instrument glass

Options

- Rotatable/tiltable housing
- Thermowell G¹/₂B, stainless steel 1.4541
- Grooved nut connection according to DIN 11851
- Nominal size 250
- Other connection designs
- Other ranges
- Special scales
- Glycerine filling (type D8)
- 3-hole fixing panel mounting bezel
- Back flange
- Capillary (stainless steel 1.4541)
- Special materials
- Electrical contacts

Gas filled thermometers

Version for chemical applications type D4 – NG 100/160

Housing types and dimensions

<p>Centre back connection</p>	<p>Bottom connection</p>
<p>Rotatable/tiltable housing</p>	<p>Version with capillary and wall bracket</p>
<p>Version with capillary and back flange</p>	<p>Version with capillary and 3-hole fixing panel mounting bezel</p>

Dimensions (mm)

Nominal size (NG)	a	b	b1	Ø D	Ø d1	Ø d2	Ø d3		
100	13	45	51	101	132	116	5.5		
160	13	45	51	161	196	178	6		
250	13	55	57	252	285	270	6		