

Glass Industrial Thermometer Fig. TBG1

Specification

- Industrial liquid-in-glass thermometer for local temperature indication
- Suitable for heating systems, mechanical engineering, tank construction, and general industrial applications
- Vibration-resistant construction
- Filled with blue, non-toxic thermometric liquid

Technical Specifications

Parameter	Specification
Nominal sizes	NS 110, NS 150 and NS 200 mm
Measuring principle	Liquid expansion
Available temperature scales	-30 to +50; 0 to 60; 0 to 100; 0 to 120; 0 to 160; 0 to 200 °C
Housing / case	Aluminium, brass-coloured anodised finish
Glass insert	Rod-shaped, prismatic capillary
Thermometric liquid	Blue, wetting, non-toxic
Stem / wetted material	Copper alloy
Stem diameter	10 mm standard; 6.5 mm for NS 200 x 36 with M24 x 1.5 union nut
Insertion lengths	30, 40, 63, 100, 160, 250 mm
Connection	Design E male threaded; available G 1/2 B, M20 x 1.5, G 3/8 B & M16 x 1.5, depending on configuration
Stem pressure limit	Maximum 6 bar
Scale marking	Special ink, protected by anodised finish
Error limits	According to DIN 16195; see scale table

Design Versions And Applicable Dimensional Standards

Nominal size	Straight	90° Angle	135° Angle
NS 110	DIN 16181	DIN 16182	Configuration-dependent
NS 150	DIN 16185	DIN 16186	Configuration-dependent
NS 200	DIN 16189	DIN 16190	DIN 16191

Scale Graduation And Permissible Error

Nominal size	Range (°C)	Scale Division (°C)	Error Limit (±°C)
NS 110	-30 to +50 / 0 to 60 / 0 to 100 / 0 to 120 / 0 to 160 / 0 to 200	1 / 1 / 2 / 2 / 4 / 5	2 / 1.5 / 2 / 2 / 4 / 5
NS 150	Same six ranges	1 / 1 / 2 / 2 / 2 / 2	2 / 1.5 / 2 / 2 / 4 / 4
NS 200	Same six ranges	1 / 1 / 1 / 1 / 2 / 2	2 / 1.5 / 2 / 2 / 4 / 4

Features and Applications

- ✔ **Features:** Vibration resistant; non-toxic indication fluid; direct local reading; no external power required
- ✔ **Applications:** Central heating, HVAC water systems, tank construction, mechanical and general industrial installations

Important Technical Notes

Exact thread, immersion length, nominal size, angular design and temperature scale must be specified at order stage. The 6 bar limit refers to the stem configuration shown in the supplied reference. Verify compatibility with the process medium and operating conditions. DIN 16195 is a product standard, not evidence of independent certification. Product compliance and model-specific specifications must be confirmed by the manufacturer before issue for approval

Notes

Specifications, materials and dimensions shown are subject to change without prior notice