

Fig. 20H Heating and cooling system bimetal thermometer

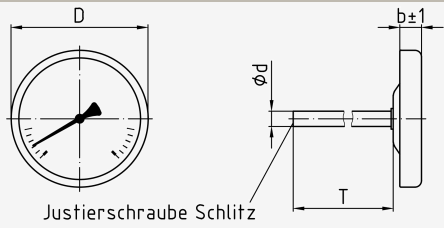


Application and performance features

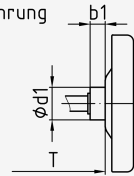
Cost-effective temperature measurement for closed water circuits in building technology
 Robust and unbreakable sheet steel housing, viewing panel made of scratch-resistant mineral glass, temperature sensor made of copper alloy
 Suitable for use in weather-protected indoor areas
 Simplified installation thanks to an alignment option in the installed state
 Display ranges according to EN 13190 between -40°C and +200°C
 Accuracy class 2 according to EN 13190
 Temperature sensors up to 200mm
 Incl. protective tube made of copper alloy for standard parameters in the heating sector

Technical data	
Type standard	based on EN 13190
Measuring principle	Dial thermometer, which is operated by the different expansion of helically arranged bimetallic strips
Nominal size	63 mm, 80 mm, 100 mm, 160 mm
Display ranges	-40°C to +200°C Nominal sizes 34 mm, 40 mm, 50 mm: 0-80°C, 0-100°C, 0-120°C, 160°C
Accuracy class	2
Load capacity	100 % of the final value for a short time
Temperature sensor	Ø7mm, 45 mm to 200 mm
Connection position	rear centric
Material	Case: Steel 1.0330, blue galvanized Collar: Steel 1.0347, blue galvanized Temperature sensor: Copper alloy 2.0321 Pointer: Aluminium, black anodized Dial: Aluminium, white coated, black printed Window: Scratch-resistant mineral glass
Enclosure protection class	IP42 according to EN 60529
Adjustment option	on the temperature sensor
Ambient and storage temperature	-20°C to +60°C

Dimensions



Variante mit Gehäuseausführung



Nominal size	Temperature sensor (T)	Display range	Active length of temperature sensor
63, 80 1	45, 63	up to and including 200°C	see order documents

Options	
Nominal size	Temperature sensor (T)
63, 80, 100, 160	80-200

Connection options	
Nominal size = D	d
63	7
80	7
100	7
160	7

Spalte 1	Spalte 2	Spalte 3	Spalte 4	Spalte 5
Customized imprint (text, logo), special scale	from 100 pcs.			
Vibration-damped version (up to max. 120°C)	from 1 pc.			
Class 1 according to EN 13190	from 10 pcs.			
Nominal sizes 34 mm, 40 mm, 50 mm	Quantity on request			
Cold bridge made of PAS-PVC (up to max. 120°C, temperature sensor plus 20mm or 50mm)	from 1 pc.			
Temperature sensor sealed (up to max. 120°C)	from 1 pc.			
Excess or intermediate length <50 mm step	Quantity on request			
Works certificate 2.1 (EN 10204)	from 1 pc.			
(Material) acceptance test certificate 3.1 (EN 10204)	from 1 pc.			
Factory calibration incl. calibration certificate	from 1 pc.			

Spalte 1	Spalte 2	Spalte 3	Spalte 4	Spalte 5
Connection type 01 thermowell for screwing in (standard, included)	Copper alloy 2.0321			

Important notes
Please observe the relevant standards and laws, as well as the installation and operating instructions for thermometers.

In particular, we would like to draw your attention to the suitable measuring materials with regard to material resistance and their maximum measuring material temperature.