Bimetal thermometer
For heating technology
Model A51, high-quality version

Applications
- Heating systems
- Refrigeration and air-conditioning technology
- Ventilation systems

Special features
- Scale ranges from -30 ... +250 °C
- Nominal size 63, 80 and 100
- Different connection designs

Description
The model A51 bimetal thermometer has been developed as a high-quality version for simple temperature indication in heating, air-conditioning and ventilation applications. The modular design enables a multitude of combinations of case materials, nominal sizes, scale ranges and stem lengths.

The instrument is very versatile in operation. For operation in heating applications, fitting with a thermowell is recommended. For this, the A51 has been designed with a smooth stem in readiness for thermowell mounting. Furthermore, this version offers an indication accuracy of class 1 in accordance with EN 13190.

In the air-conditioning and ventilation industries, the A51 is available with a sliding mounting flange on the stem as well as a rear mounting flange at the case. Both versions are delivered with an indication accuracy of class 2 in accordance with EN 13190.
**Standard version**

**Measuring element**
Bimetal coil

**Nominal size in mm**
63, 80, 100

**Working range**
Full scale value

**Scale range**
-30 … +250 °C

**Case**
Steel, galvanised

**Connection location**
Back mount, centre

**Stem**
Copper alloy

**Connection designs**
- **Air-conditioning and ventilation**
  - Smooth connection, with rear mounting flange
  - Smooth connection, with sliding plastic flange
- **Liquid media**
  - Smooth connection, with 18 mm collar diameter for thermowell mounting

**Dial**
White plastic, black lettering
from 160 °C: Aluminium

**Pointer**
Aluminium, black

**Window**
Plastic

**Indication accuracy**
- **Thermowell version**
  Class 1 per EN 13190
- **For mounting flanges and rear mounting flange**
  Class 2 per EN 13190

**Zero adjustment**
At bottom of stem

**Options**

- Case and stem from stainless steel

**Accessories**

Thermowells model SWT52G (see data sheet TW 90.11)
Dimensions in mm

Smooth connection, with rear mounting flange

<table>
<thead>
<tr>
<th>Nominal size</th>
<th>Dimensions in mm</th>
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<tr>
<td>Ø D</td>
<td>L₁</td>
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<tr>
<td>63</td>
<td>45 ¹, 63 ¹, 100, 160, 200 or 250</td>
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<tr>
<td>80</td>
<td>90</td>
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<tr>
<td>100</td>
<td>109</td>
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¹) Only with versions for thermowell mounting

Smooth connection, with sliding plastic flange

Smooth connection, with 18 mm collar diameter for thermowell mounting

Ordering information
Model / Nominal size / Case material / Scale range / Insertion length L₁ / Connection design / Options

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