Bimetal thermometer
For air-conditioning and refrigeration systems
Model A48

Applications
■ Air-conditioning and refrigeration systems
■ Ventilation systems

Special features
■ Accuracy class 2
■ Nominal size 63, 80, 100 and 160
■ Scale ranges from -30 ... +50 °C to 0 ... 120 °C

Description
The model A48 bimetal thermometer has been specifically developed for use in air-conditioning and refrigeration technology for measuring the temperature in air ducts.

Due to the flexibly adjustable flange, the thermometer can be adapted to all standard wall thicknesses of pipe insulations.
Specifications

Measuring element
Bimetal coil

Nominal size in mm
63, 80, 100 and 160

Models

<table>
<thead>
<tr>
<th>Model</th>
<th>NS</th>
<th>Connection location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A48.10.063</td>
<td>63</td>
<td>Back mount (BM), centre</td>
</tr>
<tr>
<td>A48.10.080</td>
<td>80</td>
<td></td>
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<tr>
<td>A48.10.100</td>
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<td></td>
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<tr>
<td>A48.10.160</td>
<td>160</td>
<td></td>
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</tbody>
</table>

Scale ranges

<table>
<thead>
<tr>
<th>Scale range in °C</th>
<th>Scale spacing in °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>-30 ... +50</td>
<td>1</td>
</tr>
<tr>
<td>-20 ... +60</td>
<td>1</td>
</tr>
<tr>
<td>-10 ... +50</td>
<td>1</td>
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<tr>
<td>0 ... 60</td>
<td>1</td>
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<tr>
<td>0 ... 80</td>
<td>1</td>
</tr>
<tr>
<td>0 ... 120</td>
<td>2</td>
</tr>
</tbody>
</table>

other scale ranges on request

Connection
Flange, steel zinc plated, adjustable on stem
- Standard: flange diameter \(d_2 = 61\) mm
- Option: flange diameter \(d_2 = 50\) mm

Stem
Insertion length \(l = 160, 200\) and \(300\) mm
\(\varnothing 9\) mm copper alloy
Minimum immersion depth \(l_{\text{min}} = \text{approx.} 60\) mm
other insertion lengths on request

Accuracy class
Class 2 per EN 13190

Case
Aluminium

Dial
Aluminium, white, black lettering

Pointer
Aluminium, black

Window
Acrylic plastic

Zero adjustment
At bottom of stem
### Dimensions in mm

**Legend:**
Minimum immersion depth $l_{\text{min}} = 60$ mm

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø D</td>
<td>b₁</td>
</tr>
<tr>
<td>63</td>
<td>63</td>
<td>20</td>
</tr>
<tr>
<td>80</td>
<td>80</td>
<td>22</td>
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<tr>
<td>100</td>
<td>100</td>
<td>27</td>
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<tr>
<td>160</td>
<td>160</td>
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</table>
Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Description</th>
<th>Country</th>
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</thead>
</table>
| ![GOST](image) | GOST (option)  
Metrology/measurement technology | Russia   |
| ![KazInMetr](image) | KazInMetr (option)  
Metrology/measurement technology | Kazakhstan |
| ![MTSCHS](image) | MTSCHS (option)  
Permission for commissioning | Kazakhstan |
| ![UkrSEPRO](image) | UkrSEPRO (option)  
Metrology/measurement technology | Ukraine   |
| ![Uzstandard](image) | Uzstandard (option)  
Metrology/measurement technology | Uzbekistan |
| ![CRN](image) | CRN (option)  
Safety (e.g. electr. safety, overpressure, ...) | Canada    |

Certificates (option)

- 2.2 test report

Approvals and certificates, see website

Ordering information

Model / Nominal size / Scale range / Connection / Insertion length / Options