

## Bimetall-Industriethermometer BiTh I



### Benefits

- Anzeigebereiche: -20/+60, 0/60, 0/120, 0/160 °C
- Messing-Schutzrohr
- Tauchrohr aus Messing

### Anwendung

Maschinen-, Apparate-, Rohrleitungsbau, Boiler, Kessel, Heiztechnik

### Technische Daten

**Typ**  
D2

**Nenngröße**  
63 – 80 – 100 – 160

**Messelement**  
Bimetallwendel

**Genauigkeitsklasse**  
1 (EN 13190)

**Anzeigebereiche °C**  
-20/+60, 0/60, 0/120, 0/160

#### Verwendungsbereich (EN 13190)

Dauerbelastung: Messbereich  
Kurzzeitig: Anzeigebereich

#### Betriebsdruck am Schutzrohr

Max. 10 bar (statisch)

#### Schutzart

IP 41 (EN 60529)

### Standardausführung

**Anschluss**  
Tauchrohr: Messing, Ø 9 mm  
Schutzrohr: G½B, Messing, Ø 12 mm, abnehmbar

**Anschlusslage**  
Radial oder axial

**Zifferblatt**  
Aluminium, weiß  
Skalierung schwarz

**Zeiger**  
Aluminium, schwarz

**Gehäuse**  
Stahlblech, verzinkt

**Übersteckring**  
Stahlblech, vernickelt

**Sichtscheibe**  
Instrumentenglas

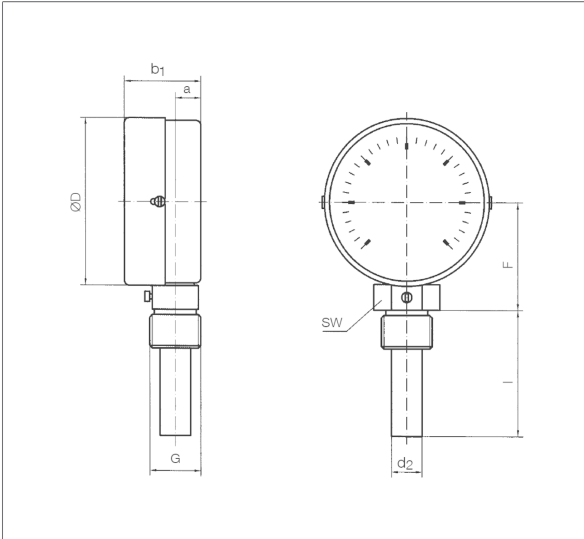


Optionen

- Andere Anschlussformen
- Andere Anzeigebereiche
- Andere Schaftlängen

Technische Zeichnungen

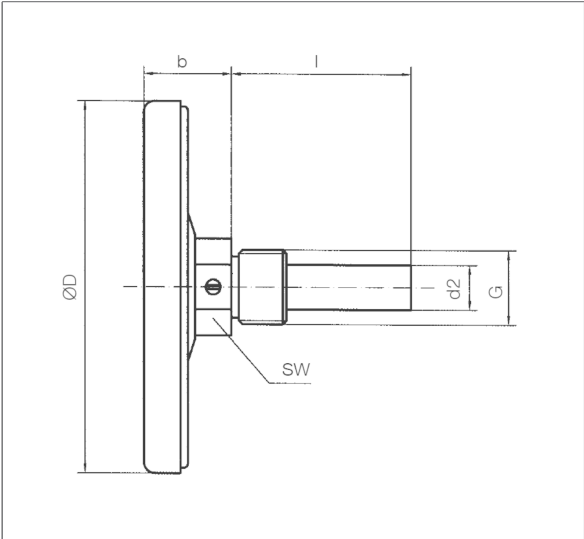
Anschluss radial



Maße (mm)

| NG  | a  | b1  | D   | d2 | F    | G   | I   | SW |
|-----|----|-----|-----|----|------|-----|-----|----|
| 63  | 10 | 34  | 63  | 12 | 43,5 | G½B | 40  | 22 |
|     | 10 | 34  | 63  | 12 | 43,5 | G½B | 63  | 22 |
|     | 10 | 34  | 63  | 12 | 43,5 | G½B | 100 | 22 |
|     | 10 | 34  | 63  | 12 | 43,5 | G½B | 150 | 22 |
| 80  | 10 | 36  | 80  | 12 | 52   | G½B | 40  | 22 |
|     | 10 | 36  | 80  | 12 | 52   | G½B | 63  | 22 |
|     | 10 | 36  | 80  | 12 | 52   | G½B | 100 | 22 |
|     | 10 | 36  | 80  | 12 | 52   | G½B | 150 | 22 |
| 100 | 10 | 36  | 100 | 12 | 62   | G½B | 40  | 22 |
|     | 10 | 36  | 100 | 12 | 62   | G½B | 63  | 22 |
|     | 10 | 36  | 100 | 12 | 62   | G½B | 100 | 22 |
|     | 10 | 36  | 100 | 12 | 62   | G½B | 150 | 22 |
| 160 | 37 | 160 | 12  | 92 | G½B  | 40  | 22  |    |
|     | 37 | 160 | 12  | 92 | G½B  | 63  | 22  |    |
|     | 37 | 160 | 12  | 92 | G½B  | 100 | 22  |    |
|     | 37 | 160 | 12  | 92 | G½B  | 150 | 22  |    |

Anschluss axial



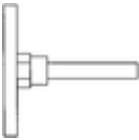
Maße (mm)

| NG  | b  | D   | d2 | G   | I   | SW |
|-----|----|-----|----|-----|-----|----|
| 63  | 24 | 63  | 12 | G½B | 40  | 22 |
|     | 24 | 63  | 12 | G½B | 63  | 22 |
|     | 24 | 63  | 12 | G½B | 100 | 22 |
|     | 24 | 63  | 12 | G½B | 150 | 22 |
| 80  | 24 | 80  | 12 | G½B | 40  | 22 |
|     | 24 | 80  | 12 | G½B | 63  | 22 |
|     | 24 | 80  | 12 | G½B | 100 | 22 |
|     | 24 | 80  | 12 | G½B | 150 | 22 |
| 100 | 26 | 100 | 12 | G½B | 40  | 22 |
|     | 26 | 100 | 12 | G½B | 63  | 22 |
|     | 26 | 100 | 12 | G½B | 100 | 22 |
|     | 26 | 100 | 12 | G½B | 150 | 22 |
| 160 | 32 | 160 | 12 | G½B | 40  | 22 |
|     | 32 | 160 | 12 | G½B | 63  | 22 |
|     | 32 | 160 | 12 | G½B | 100 | 22 |
|     | 32 | 160 | 12 | G½B | 150 | 22 |



## Ausführungen

### BiTh 63 I

|                                                                                     | Gehäuse-∅ | Anschlusslage | Anzeigebereich | Schaftlänge | Typ            | Art.-Nr.                 |
|-------------------------------------------------------------------------------------|-----------|---------------|----------------|-------------|----------------|--------------------------|
|    | 63 mm     | Radial        | -20/+60 °C     | 45 mm       | BiTh 63 I D201 | 65106201                 |
|                                                                                     | 63 mm     | Radial        | -20/+60 °C     | 63 mm       | BiTh 63 I D201 | 65107201                 |
|                                                                                     | 63 mm     | Radial        | -20/+60 °C     | 100 mm      | BiTh 63 I D201 | 65108201                 |
|                                                                                     | 63 mm     | Radial        | -20/+60 °C     | 150 mm      | BiTh 63 I D201 | 65109201                 |
|                                                                                     | 63 mm     | Radial        | 0/60 °C        | 45 mm       | BiTh 63 I D201 | 65131201                 |
|                                                                                     | 63 mm     | Radial        | 0/60 °C        | 63 mm       | BiTh 63 I D201 | 65132201                 |
|                                                                                     | 63 mm     | Radial        | 0/60 °C        | 100 mm      | BiTh 63 I D201 | 65133201                 |
|                                                                                     | 63 mm     | Radial        | 0/60 °C        | 150 mm      | BiTh 63 I D201 | 65134201                 |
|                                                                                     | 63 mm     | Radial        | 0/120 °C       | 45 mm       | BiTh 63 I D201 | 65146201                 |
|                                                                                     | 63 mm     | Radial        | 0/120 °C       | 63 mm       | BiTh 63 I D201 | 65147201                 |
|                                                                                     | 63 mm     | Radial        | 0/120 °C       | 150 mm      | BiTh 63 I D201 | 65148201                 |
|                                                                                     | 63 mm     | Radial        | 0/120 °C       | 150 mm      | BiTh 63 I D201 | 65149201                 |
|                                                                                     | 63 mm     | Radial        | 0/160 °C       | 45 mm       | BiTh 63 I D201 | 65151201                 |
|                                                                                     | 63 mm     | Radial        | 0/160 °C       | 63 mm       | BiTh 63 I D201 | 65152201                 |
|                                                                                     | 63 mm     | Radial        | 0/160 °C       | 100 mm      | BiTh 63 I D201 | 65153201                 |
|                                                                                     | 63 mm     | Radial        | 0/160 °C       | 150 mm      | BiTh 63 I D201 | 65154201                 |
|  | 63 mm     | Axial         | -20/+60 °C     | 45 mm       | BiTh 63 I D211 | 65106211                 |
|                                                                                     | 63 mm     | Axial         | -20/+60 °C     | 63 mm       | BiTh 63 I D211 | 65107211                 |
|                                                                                     | 63 mm     | Axial         | -20/+60 °C     | 100 mm      | BiTh 63 I D211 | 65108211                 |
|                                                                                     | 63 mm     | Axial         | -20/+60 °C     | 150 mm      | BiTh 63 I D211 | 65109211                 |
|                                                                                     | 63 mm     | Axial         | 0/60 °C        | 45 mm       | BiTh 63 I D211 | <a href="#">65131211</a> |
|                                                                                     | 63 mm     | Axial         | 0/60 °C        | 63 mm       | BiTh 63 I D211 | <a href="#">65132211</a> |
|                                                                                     | 63 mm     | Axial         | 0/60 °C        | 100 mm      | BiTh 63 I D211 | 65133211                 |
|                                                                                     | 63 mm     | Axial         | 0/60 °C        | 150 mm      | BiTh 63 I D211 | 65134211                 |
|                                                                                     | 63 mm     | Axial         | 0/120 °C       | 45 mm       | BiTh 63 I D211 | <a href="#">65146211</a> |
|                                                                                     | 63 mm     | Axial         | 0/120 °C       | 63 mm       | BiTh 63 I D211 | <a href="#">65147211</a> |

Blaue Art.-Nr. = Lagerware



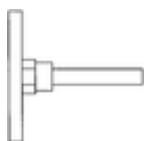
| Gehäuse-ø | Anschlusslage | Anzeigebereich | Schaftlänge | Typ            | Art.-Nr.                 |
|-----------|---------------|----------------|-------------|----------------|--------------------------|
| 63 mm     | Axial         | 0/120 °C       | 100 mm      | BiTh 63 I D211 | <a href="#">65148211</a> |
| 63 mm     | Axial         | 0/120 °C       | 150 mm      | BiTh 63 I D211 | 65149211                 |
| 63 mm     | Axial         | 0/160 °C       | 45 mm       | BiTh 63 I D211 | 65151211                 |
| 63 mm     | Axial         | 0/160 °C       | 63 mm       | BiTh 63 I D211 | 65152211                 |
| 63 mm     | Axial         | 0/160 °C       | 100 mm      | BiTh 63 I D211 | 65153211                 |
| 63 mm     | Axial         | 0/160 °C       | 150 mm      | BiTh 63 I D211 | 65154211                 |

Blaue Art.-Nr. = Lagerware

#### BiTh 80 I

| Gehäuse-ø | Anschlusslage | Anzeigebereich | Schaftlänge | Typ            | Art.-Nr. |
|-----------|---------------|----------------|-------------|----------------|----------|
| 80 mm     | Radial        | -20/+60 °C     | 45 mm       | BiTh 80 I D201 | 65206201 |
| 80 mm     | Radial        | -20/+60 °C     | 63 mm       | BiTh 80 I D201 | 65207201 |
| 80 mm     | Radial        | -20/+60 °C     | 100 mm      | BiTh 80 I D201 | 65208201 |
| 80 mm     | Radial        | -20/+60 °C     | 150 mm      | BiTh 80 I D201 | 65209201 |
| 80 mm     | Radial        | 0/60 °C        | 45 mm       | BiTh 80 I D201 | 65231201 |
| 80 mm     | Radial        | 0/60 °C        | 63 mm       | BiTh 80 I D201 | 65232201 |
| 80 mm     | Radial        | 0/60 °C        | 100 mm      | BiTh 80 I D201 | 65233201 |
| 80 mm     | Radial        | 0/60 °C        | 150 mm      | BiTh 80 I D201 | 65234201 |
| 80 mm     | Radial        | 0/120 °C       | 45 mm       | BiTh 80 I D201 | 65246201 |
| 80 mm     | Radial        | 0/120 °C       | 63 mm       | BiTh 80 I D201 | 65247201 |
| 80 mm     | Radial        | 0/120 °C       | 100 mm      | BiTh 80 I D201 | 65248201 |
| 80 mm     | Radial        | 0/120 °C       | 150 mm      | BiTh 80 I D201 | 65249201 |
| 80 mm     | Radial        | 0/160 °C       | 45 mm       | BiTh 80 I D201 | 65251201 |
| 80 mm     | Radial        | 0/160 °C       | 63 mm       | BiTh 80 I D201 | 65252201 |
| 80 mm     | Radial        | 0/160 °C       | 100 mm      | BiTh 80 I D201 | 65253201 |
| 80 mm     | Radial        | 0/160 °C       | 150 mm      | BiTh 80 I D201 | 65254201 |
| 80 mm     | Axial         | -20/+60 °C     | 45 mm       | BiTh 80 I D211 | 65206211 |
| 80 mm     | Axial         | -20/+60 °C     | 63 mm       | BiTh 80 I D211 | 65207211 |
| 80 mm     | Axial         | -20/+60 °C     | 100 mm      | BiTh 80 I D211 | 65208211 |
| 80 mm     | Axial         | -20/+60 °C     | 150 mm      | BiTh 80 I D211 | 65209211 |

Blaue Art.-Nr. = Lagerware





| Gehäuse-ø | Anschlusslage | Anzeigebereich | Schaftlänge | Typ            | Art.-Nr.                 |
|-----------|---------------|----------------|-------------|----------------|--------------------------|
| 80 mm     | Axial         | 0/60 °C        | 45 mm       | BiTh 80 I D211 | 65231211                 |
| 80 mm     | Axial         | 0/60 °C        | 63 mm       | BiTh 80 I D211 | <a href="#">65232211</a> |
| 80 mm     | Axial         | 0/60 °C        | 100 mm      | BiTh 80 I D211 | 65233211                 |
| 80 mm     | Axial         | 0/60 °C        | 150 mm      | BiTh 80 I D211 | <a href="#">65234211</a> |
| 80 mm     | Axial         | 0/120 °C       | 45 mm       | BiTh 80 I D211 | 65246211                 |
| 80 mm     | Axial         | 0/120 °C       | 63 mm       | BiTh 80 I D211 | <a href="#">65247211</a> |
| 80 mm     | Axial         | 0/120 °C       | 100 mm      | BiTh 80 I D211 | <a href="#">65248211</a> |
| 80 mm     | Axial         | 0/120 °C       | 150 mm      | BiTh 80 I D211 | <a href="#">65249211</a> |
| 80 mm     | Axial         | 0/160 °C       | 45 mm       | BiTh 80 I D211 | 65251211                 |
| 80 mm     | Axial         | 0/160 °C       | 63 mm       | BiTh 80 I D211 | 65252211                 |
| 80 mm     | Axial         | 0/160 °C       | 100 mm      | BiTh 80 I D211 | 65253211                 |
| 80 mm     | Axial         | 0/160 °C       | 150 mm      | BiTh 80 I D211 | 65254211                 |

Blaue Art.-Nr. = Lagerware

#### BiTh 100 I

| Gehäuse-ø | Anschlusslage | Anzeigebereich | Schaftlänge | Typ             | Art.-Nr. |
|-----------|---------------|----------------|-------------|-----------------|----------|
| 100 mm    | Radial        | -20/+60 °C     | 45 mm       | BiTh 100 I D201 | 65306201 |
| 100 mm    | Radial        | -20/+60 °C     | 63 mm       | BiTh 100 I D201 | 65307201 |
| 100 mm    | Radial        | -20/+60 °C     | 100 mm      | BiTh 100 I D201 | 65308201 |
| 100 mm    | Radial        | -20/+60 °C     | 150 mm      | BiTh 100 I D201 | 65309201 |
| 100 mm    | Radial        | 0/60 °C        | 45 mm       | BiTh 100 I D201 | 65331201 |
| 100 mm    | Radial        | 0/60 °C        | 63 mm       | BiTh 100 I D201 | 65332201 |
| 100 mm    | Radial        | 0/60 °C        | 100 mm      | BiTh 100 I D201 | 65333201 |
| 100 mm    | Radial        | 0/60 °C        | 150 mm      | BiTh 100 I D201 | 65334201 |
| 100 mm    | Radial        | 0/120 °C       | 45 mm       | BiTh 100 I D201 | 65346201 |
| 100 mm    | Radial        | 0/120 °C       | 63 mm       | BiTh 100 I D201 | 65347201 |
| 100 mm    | Radial        | 0/120 °C       | 100 mm      | BiTh 100 I D201 | 65348201 |
| 100 mm    | Radial        | 0/120 °C       | 150 mm      | BiTh 100 I D201 | 65349201 |
| 100 mm    | Radial        | 0/160 °C       | 45 mm       | BiTh 100 I D201 | 65351201 |
| 100 mm    | Radial        | 0/160 °C       | 63 mm       | BiTh 100 I D201 | 65352201 |

Blaue Art.-Nr. = Lagerware





|  | Gehäuse-∅ | Anschlusslage | Anzeigebereich | Schaftlänge | Typ             | Art.-Nr.                 |
|--|-----------|---------------|----------------|-------------|-----------------|--------------------------|
|  | 100 mm    | Radial        | 0/160 °C       | 100 mm      | BiTh 100 I D201 | 65353201                 |
|  | 100 mm    | Radial        | 0/160 °C       | 150 mm      | BiTh 100 I D201 | 65354201                 |
|  | 100 mm    | Axial         | -20/+60 °C     | 45 mm       | BiTh 100 I D211 | 65306211                 |
|  | 100 mm    | Axial         | -20/+60 °C     | 63 mm       | BiTh 100 I D211 | <a href="#">65307211</a> |
|  | 100 mm    | Axial         | -20/+60 °C     | 100 mm      | BiTh 100 I D211 | <a href="#">65308211</a> |
|  | 100 mm    | Axial         | -20/+60 °C     | 150 mm      | BiTh 100 I D211 | 65309211                 |
|  | 100 mm    | Axial         | 0/60 °C        | 45 mm       | BiTh 100 I D211 | 65331211                 |
|  | 100 mm    | Axial         | 0/60 °C        | 63 mm       | BiTh 100 I D211 | <a href="#">65332211</a> |
|  | 100 mm    | Axial         | 0/60 °C        | 100 mm      | BiTh 100 I D211 | <a href="#">65333211</a> |
|  | 100 mm    | Axial         | 0/60 °C        | 150 mm      | BiTh 100 I D211 | 65334211                 |
|  | 100 mm    | Axial         | 0/120 °C       | 45 mm       | BiTh 100 I D211 | 65346211                 |
|  | 100 mm    | Axial         | 0/120 °C       | 63 mm       | BiTh 100 I D211 | <a href="#">65347211</a> |
|  | 100 mm    | Axial         | 0/120 °C       | 100 mm      | BiTh 100 I D211 | <a href="#">65348211</a> |
|  | 100 mm    | Axial         | 0/120 °C       | 150 mm      | BiTh 100 I D211 | <a href="#">65349211</a> |
|  | 100 mm    | Axial         | 0/160 °C       | 45 mm       | BiTh 100 I D211 | 65351211                 |
|  | 100 mm    | Axial         | 0/160 °C       | 63 mm       | BiTh 100 I D211 | <a href="#">65352211</a> |
|  | 100 mm    | Axial         | 0/160 °C       | 100 mm      | BiTh 100 I D211 | 65353211                 |
|  | 100 mm    | Axial         | 0/160 °C       | 150 mm      | BiTh 100 I D211 | 65354211                 |

Blaue Art.-Nr. = Lagerware

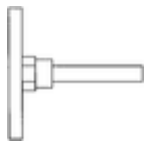
#### BiTh 160 I

|  | Gehäuse-∅ | Anschlusslage | Anzeigebereich | Schaftlänge | Typ             | Art.-Nr. |
|--|-----------|---------------|----------------|-------------|-----------------|----------|
|  | 160 mm    | Radial        | -20/+60 °C     | 45 mm       | BiTh 160 I D201 | 65406201 |
|  | 160 mm    | Radial        | -20/+60 °C     | 63 mm       | BiTh 160 I D201 | 65407201 |
|  | 160 mm    | Radial        | -20/+60 °C     | 100 mm      | BiTh 160 I D201 | 65408201 |
|  | 160 mm    | Radial        | -20/+60 °C     | 150 mm      | BiTh 160 I D201 | 65409201 |
|  | 160 mm    | Radial        | 0/60 °C        | 45 mm       | BiTh 160 I D201 | 65431201 |
|  | 160 mm    | Radial        | 0/60 °C        | 63 mm       | BiTh 160 I D201 | 65432201 |
|  | 160 mm    | Radial        | 0/60 °C        | 100 mm      | BiTh 160 I D201 | 65433201 |
|  | 160 mm    | Radial        | 0/60 °C        | 150 mm      | BiTh 160 I D201 | 65434201 |

Blaue Art.-Nr. = Lagerware



| Gehäuse-ø | Anschlusslage | Anzeigebereich | Schaftlänge | Typ             | Art.-Nr. |
|-----------|---------------|----------------|-------------|-----------------|----------|
| 160 mm    | Radial        | 0/120 °C       | 45 mm       | BiTh 160 I D201 | 65446201 |
| 160 mm    | Radial        | 0/120 °C       | 63 mm       | BiTh 160 I D201 | 65447201 |
| 160 mm    | Radial        | 0/120 °C       | 100 mm      | BiTh 160 I D201 | 65448201 |
| 160 mm    | Radial        | 0/120 °C       | 150 mm      | BiTh 160 I D201 | 65449201 |
| 160 mm    | Radial        | 0/160 °C       | 45 mm       | BiTh 160 I D201 | 65451201 |
| 160 mm    | Radial        | 0/160 °C       | 63 mm       | BiTh 160 I D201 | 65452201 |
| 160 mm    | Radial        | 0/160 °C       | 100 mm      | BiTh 160 I D201 | 65453201 |
| 160 mm    | Radial        | 0/160 °C       | 150 mm      | BiTh 160 I D201 | 65454201 |
| 160 mm    | Axial         | -20/+60 °C     | 45 mm       | BiTh 160 I D211 | 65406211 |
| 160 mm    | Axial         | -20/+60 °C     | 63 mm       | BiTh 160 I D211 | 65407211 |
| 160 mm    | Axial         | -20/+60 °C     | 100 mm      | BiTh 160 I D211 | 65408211 |
| 160 mm    | Axial         | -20/+60 °C     | 150 mm      | BiTh 160 I D211 | 65409211 |
| 160 mm    | Axial         | 0/60 °C        | 45 mm       | BiTh 160 I D211 | 65431211 |
| 160 mm    | Axial         | 0/60 °C        | 63 mm       | BiTh 160 I D211 | 65432211 |
| 160 mm    | Axial         | 0/60 °C        | 100 mm      | BiTh 160 I D211 | 65433211 |
| 160 mm    | Axial         | 0/60 °C        | 150 mm      | BiTh 160 I D211 | 65434211 |
| 160 mm    | Axial         | 0/120 °C       | 45 mm       | BiTh 160 I D211 | 65446211 |
| 160 mm    | Axial         | 0/120 °C       | 63 mm       | BiTh 160 I D211 | 65447211 |
| 160 mm    | Axial         | 0/120 °C       | 100 mm      | BiTh 160 I D211 | 65448211 |
| 160 mm    | Axial         | 0/120 °C       | 150 mm      | BiTh 160 I D211 | 65449211 |
| 160 mm    | Axial         | 0/160 °C       | 45 mm       | BiTh 160 I D211 | 65451211 |
| 160 mm    | Axial         | 0/160 °C       | 63 mm       | BiTh 160 I D211 | 65452211 |
| 160 mm    | Axial         | 0/160 °C       | 100 mm      | BiTh 160 I D211 | 65453211 |
| 160 mm    | Axial         | 0/160 °C       | 150 mm      | BiTh 160 I D211 | 65454211 |



Blaue Art.-Nr. = Lagerware