

# Machineglas thermometer Type: M10 + M15

DIN16181, 16182, 16185, 16186, 16189, 16190, 16191

|                           |   |
|---------------------------|---|
| <b>Housing</b>            | V-Form, Aluminium, Anodized EV3   |
| <b>Display</b>            | prismatic glass capillary, white background                                   |
| <b>Filling</b>            | red or blue, see page 35  |
| <b>Measuring Range</b>    | from -80 to +300 °C   |
| <b>Accuracy</b>           | Cl. 1,0 - 1,5 acc. DIN 16195  |
| <b>Stem</b>               | 10 mm, brass, alternative 1.4571/SS AISI 316Ti (type changes to M15)          |
| <b>Process connection</b> | Form 6, screw in nipple G1/2B (Standard)<br>other connections, see page 36+37 |
| <b>Scale</b>              | lettering black<br>Ddouble scale black/red (°C/°F)                            |

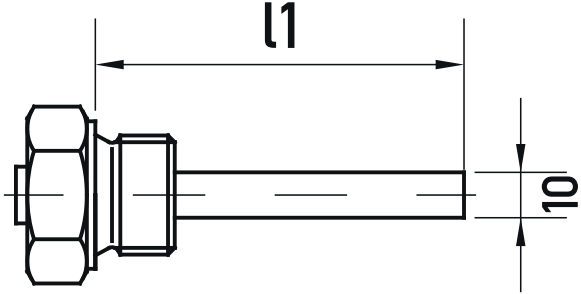
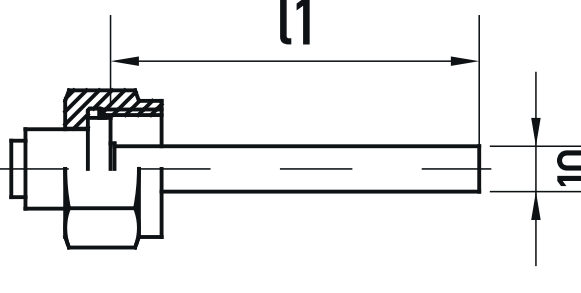


| ① | Model   | Housing size                   |                                |                                |
|---|---|--------------------------------|--------------------------------|--------------------------------|
|   |   | N = 110 mm                     | N = 150 mm                     | N = 200 mm                     |
|   | bottom connection<br><br>Type<br><i>M10.U.1...</i>  | DIN 16181<br><i>.N110</i>      | DIN 16185<br><i>.N150</i>      | DIN 16189<br><i>.N200</i>      |
|   | back connection<br><br>Type<br><i>M10.H.1...</i>  | DIN 16182<br><i>.N110</i>      | DIN 16186<br><i>.N150</i>      | DIN 16190<br><i>.N200</i>      |
|   | back connection with<br>ball piece<br>(Display 360° rotatable)<br><br>Type<br><i>M10.H.1.K90...</i> | sim. DIN 16181<br><i>.N110</i> | sim. DIN 16185<br><i>.N150</i> | sim. DIN 16189<br><i>.N200</i> |
|   | anlgte connection 135°<br><br>Type<br><i>M10.H.1.W135...</i>  | sim. DIN 16191<br><i>.N110</i> | sim. DIN 16191<br><i>.N150</i> | DIN 16191<br><i>.N200</i>      |

| ② Display range in °C | Color of capillary filling |
|-----------------------|----------------------------|
| -80 - 0 - +40         |                            |
| -70 - 0 - +30         |                            |
| -60 - 0 - +40         |                            |
| -50 - 0 - +50         |                            |
| -40 - 0 - +40         |                            |
| -40 - 0 - +60         |                            |
| -30 - 0 - +50         | red                        |
| -30 - 0 - +70         |                            |
| -20 - 0 - +40         |                            |
| -20 - 0 - +60         |                            |
| -20 - 0 - +80         |                            |
| -10 - 0 - +50         |                            |
| 0 - 50                |                            |
| 0 - 60                |                            |
| 0 - 80                |                            |
| 0 - 100               |                            |
| 0 - 120               |                            |
| 0 - 160               | blue                       |
| 0 - 200               |                            |
| 0 - 250               |                            |
| 0 - 300               | blue                       |

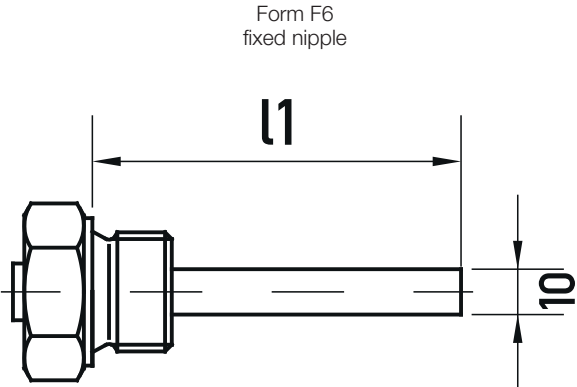
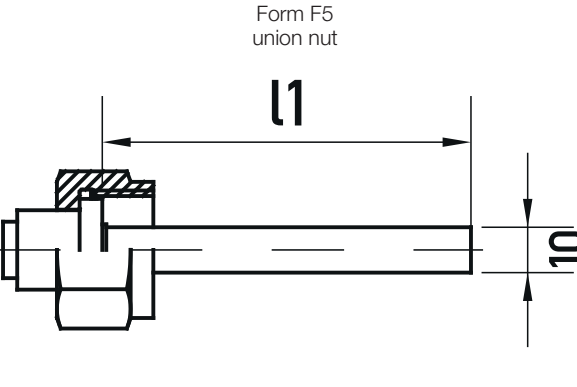
# Machineglas thermometer

E fW\_ S` V BcãUWæ Ua` ` Wff[a` , 4cSee

| 3a  | 5a` ` Wff[a`<br>6WæY` | Standard<br>WYfZ I1 | 5a` ` Wff[a` -<br>fZd&V              |  |
|---|-----------------------|---------------------|--------------------------------------|--|
| <div data-bbox="151 515 734 896"> <p>Form F6<br/>Xj W @bbW</p>  </div> <div data-bbox="151 1321 734 1702"> <p>Form F5<br/>g` la` ` gf</p>  </div> |                       | 40 mm               | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 45 mm               | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 63 mm               | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 100 mm              | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 160 mm              | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 250 mm              | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 400 mm              | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       | 630 mm              | G1/2B<br>G3/4B<br>M18x1,5<br>M24x1,5 |  |
|   |                       |                     |                                      |  |

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Stem and process connection, Edelstahl 1.4571/SS AISI 316Ti, Typ M15

| 3b   | Anschlussformen | Fühlerlänge l1 | Anschlussgewinde |
|--|-----------------|----------------|------------------|
| <div data-bbox="295 517 874 902"> <p>Form F6<br/>fixed nipple</p>  </div> <div data-bbox="295 1330 874 1715"> <p>Form F5<br/>union nut</p>  </div> | 40 mm           | G1/2B          |                  |
|  |                 | G3/4B          |                  |
|  |                 | M18x1,5        |                  |
|  |                 | M24x1,5        |                  |
|  | 45 mm           | G1/2B          |                  |
|  |                 | G3/4B          |                  |
|  |                 | M18x1,5        |                  |
|  |                 | M24x1,5        |                  |
|  | 63 mm           | G1/2B          |                  |
|  |                 | G3/4B          |                  |
|  |                 | M18x1,5        |                  |
|  |                 | M24x1,5        |                  |
|  | 100 mm          | G1/2B          |                  |
|  |                 | G3/4B          |                  |
|  | M18x1,5         |                |                  |
|  | M24x1,5         |                |                  |
| 160 mm   | G1/2B           |                |                  |
|  | G3/4B           |                |                  |
|  | M18x1,5         |                |                  |
|  | M24x1,5         |                |                  |
| 250 mm   | G1/2B           |                |                  |
|  | G3/4B           |                |                  |
|  | M18x1,5         |                |                  |
|  | M24x1,5         |                |                  |
| 400 mm   | G1/2B           |                |                  |
|  | G3/4B           |                |                  |
|  | M18x1,5         |                |                  |
|  | M24x1,5         |                |                  |
| 630 mm   | G1/2B           |                |                  |
|  | G3/4B           |                |                  |
|  | M18x1,5         |                |                  |
|  | M24x1,5         |                |                  |

Stand: 21.06.2022

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Add-ons

| ④ Add-on              | order code |  |
|-----------------------|------------|--|
| double scale °C/°F    | °C/°F      |  |
| red mark on capillary | rM         |  |



# Machineglas thermometer

Raum für Ihre Notizen

A large grid of dots for taking notes, consisting of 20 columns and 30 rows of small dots.