CombiTemp®
Temperature – keeps you cool.
Product overview of *CombiTemp®*

<table>
<thead>
<tr>
<th>Features</th>
<th>Industries</th>
<th>Media edge conditions</th>
<th>Process connections</th>
<th>Wetted parts material</th>
<th>Available measurement ranges</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precise Temperature measurement</td>
<td>Industrial Machinery</td>
<td>TFRN: –50...400°C</td>
<td>TRFN: Tube without connection</td>
<td>AISI 316L (1.4404)</td>
<td>Length 20 ... 3000 mm</td>
<td>DIN A 1/1</td>
</tr>
<tr>
<td>Temperature switch</td>
<td>Chemical/Petro-chemical</td>
<td>TRFRH: –50...250°C</td>
<td>TRFH: G1/2 hygienic 3A DN38 hygienic ISO 2852 clamp DN38 and DN51 Varivent™ type N</td>
<td></td>
<td>reduced tip d = 4 mm for fast response time</td>
<td>DIN B 1/1, 1/3, 1/6</td>
</tr>
<tr>
<td>Various process connections (threaded, hygienic)</td>
<td>Water/waste water</td>
<td>TRFN: Tube without connection G1/2” DIN, G1/2” ISO R1/2” ISO, 1/2”-14 NPT</td>
<td></td>
<td></td>
<td>Transmitter: 0.1 °C or 0.25 °C (dependent on type)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Food &amp; Beverage</td>
<td>TRFH: G1/2 hygienic 3A DN38 hygienic ISO 2852 clamp DN38 and DN51 Varivent™ type N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pharmaceutical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Housing**

- Stainless steel AISI 304 (1.4301) IP67 (cable gland), IP 69K (M12)
- Pt100 RTD sensor

**Measuring principle**

- Pt100 (without transmitter and display)
- 4...20 mA
- 4...20 mA HART
- 2 x relay contact (optional)

**Output signal**

- M12 plug 5-pin or 8-pin M16 or M20 cable gland

**Electrical Connection**

- Built in graphical display DFON
- Display programable by touch screen
- Display and transmitter via PC and FlexProgrammer 9701

**Interfaces**

- ATEX Ex ia IIC T5/T6, ATEX II 1G
- Ex nA II T5, ATEX II 3G
- GOST-R
- TRFH: 3-A

**Standards**

- DIN A 1/1
- DIN B 1/1, 1/3, 1/6
- Transmitter: 0.1 °C or 0.25 °C (dependent on type)

**The CombiTemp® TFRN/TFRH.**

The *CombiTemp®* TFRN/TFRH is a high end temperature transmitter for accurate and reliable temperature measurement in both industrial and hygienic applications. The instrument is well suited especially in applications which demand for highest precision and perfect visualization.


For more information about our *CombiSeries* visit www.baumer.com/CombiSeries or ask our experts.

Find your local partner: www.baumer.com/worldwide