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Passion for Sensors



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INNOVATION

CombiTemp[®]

Temperature – keeps you cool.



HANLEY CONTROLS

CLOMEL

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Product overview of *CombiTemp*®

Features	Industries	Media edge conditions	Process connections	Wetted parts material	Available measurement ranges	Accuracy
Precise Temperature measurement Temperature switch Various process connections (threaded, hygienic)	Industrial Machinery Chemical/Petrochemical Water/waste water Food & Beverage Pharmaceutical	<ul style="list-style-type: none"> ■ TFRN: -50...400 °C ■ TFRH: -50...250 °C 	<ul style="list-style-type: none"> ■ TRFN: Tube without connection G1/2" DIN, G1/2" ISO R1/2" ISO, 1/2"-14 NPT ■ TRFH: G1/2 hygienic 3A DN38 hygienic ISO 2852 clamp DN38 and DN51 Varivent® type N 	AISI 316L (1.4404)	Length 20...3000 mm reduced tip d = 4 mm for fast response time <ul style="list-style-type: none"> ■ TFRN: -50...400 °C min. range 25 °C ■ TFRH: -50...250 °C min. range 25 °C 	DIN A 1/1 DIN B 1/1, 1/3, 1/6 Transmitter: 0.1 °C or 0.25 °C (dependent on type)

Housing	Measuring principle	Output signal	Electrical Connection	Interfaces	Standards
Stainless steel AISI 304 (1.4301) IP67 (cable gland), IP 69K (M12)	Pt100 RTD sensor	Pt100 (without transmitter and display) 4...20 mA 4...20 mA HART 2 x relay contact (optional)	M12 plug 5-pin or 8-pin M16 or M20 cable gland	Built in graphical display DFON Display programmable by touch screen Display and transmitter via PC and FlexProgrammer 9701	ATEX Ex ia IIC T5/T6, ATEX II 1G Ex nA II T5, ATEX II 3G GOST-R <ul style="list-style-type: none"> ■ TRFH: 3-A

The *CombiTemp*® TFRN/TFRH.

The *CombiTemp*® 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.



The *CombiTemp*® TFRH meets the requirements of the respective 3-A Sanitary Standard. It is FDA compliant, meets industrial standards and fulfills EU directives 10/2011, 1935/2004 and 2023/2006.



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Baumer Group
International Sales
P.O. Box · Hummelstrasse 17 · CH-8501 Frauenfeld
Phone +41 (0)52 728 1122 · Fax +41 (0)52 728 1144
sales@baumer.com · www.baumer.com

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

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