Characteristics

1500 - RTD - THERMOMETER - MODULAR - ECONOMIC

	- Input:	RTD Pt100 (maximum range -50+200 °C)
	- Output:	420 mA current loop HART (2-wire)
and the second second	- Voltage supply:	Out of current loop (1240 VDC)
	- Accuracy:	See technical details
	- Process connection:	Several options
	- Electrical connection:	Lateral, Option: upwards
	- Electrical connection:	Several plugs / cable
THE	- Temperature range:	-20+80 °C (ambient)
	- Adjustment:	Software
Ť	- Material:	Stainless steel 1.5471 (medium contact)
	- Protection:	At least IP65
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Technical Data

Immut							
Input							
Sensor RTD Pt100:	-50200 °C (minimum r (Higher measurement ra	ange: 50°C), 2-wire ange up to -50250 °C possible on request)					
Output							
Current signal: Current range: Signal on error:	420 mA with superimposed communication signal (HART), 2-wire current loop 3,820,5 mA 3,6 mA (sensor short circuit, underflow) 21 mA (sensor break, sensor open circuit, overflow) RTD Pt100: Class A / Class B / Class AA (B1/3 DIN) Accuracy: 0,3% of range Resolution: 16 Bit Filter setting: 099 s Measuring rate: 10 measurements/s						
Performance							
Sensor: Measuring amplifier:	Accuracy: Resolution: Filter setting: Measuring rate:	0,3% of range 16 Bit 099 s 10 measurements/s Via software (HART communication)					
Programmable Features							
Measuring amplifier:	Measuring range end (U	ge (LRL, URL) / Measuring range start (LRV) / IRV) / Adjustment, simulation of output current / Filter function IART address / 2-point calibration					

Applications

For use in climating, ventilating and heating installations and the whole range of industrial application. Because of the used materials the sensor is very sturdy. With the numerous electrical connections and the configuration via HART the temperature sensor is also suitable for applications with higher requirements.



Technical Data (Continued)								
Supply								
Voltage: Load: Reverse battery protection:	HART current loop: 1240 VDC VDC R = (U _B -12 V) / 21 mA available (no function, no damage)							
Environmental Conditions								
Temperature:	Operating range:-20+80 °CAttention: Temperatures above +85 °C can destroy the electronics.Medium:-50+200 °CStoring:-40+100 °C							
Condensation:	uncritical							
Mechanics								
Dimensions: Process connection: Extension: Electrical connection:	see page 3 1/4" /3/8" / 1/2" / 3/4" / 1" / 1/4NPT / 3/8NPT / 1/2NPT 100 mm (option) lateral Option: upwards							
Material:	Plugs and cables:see page 3Protecting tube:stainless steel 1.4571 (standard Ø6 mm)Extension:stainless steel 1.4571Process connection:stainless steel 1.4571Body:PBT GF30							
Weight: Fitting position: System pressure: Protection of device:	Cover: PBT GF30 approx.140 g (70 mm, 1/2", M12) any PN 25 Ingress protection: at least IP 65 (electronics) PCB: potted							

Connection M12x1-Plug (Example) Assignment plug M12x1 (4-, 5-, 8-pole) Current loop 4...20 mA HART + 1 3

Electrical	Connection						
M12x1	Super Seal	Deutsch	Deutsch	Bayonet	Valve	MIL	Cable
4-, 5-, 8-pole	3-pole	3-pole	4-pole	4-pole	4-pole	6-pole	4-pole

HART Communication and Configuration

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The HART-Tool is a graphical user interface for the ME series with menu-driven progam for configuration. It can be used for putting into operation, configuration, analysis of signals, data backup and documentation of the device. Connection via HART interface DEV-HM for operating systems: Windows 2000, Windows XP, Windows 7, 8.1 and 10.

Possible settings are:

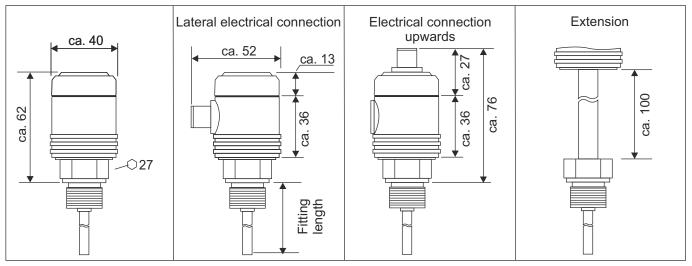
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Adjustment and simulation of output current, filter function, limits of nominal measuring range (URL, LRL), limits of used measuring range URV, LRV), linear output signal, HART address, 2-point calibration

Please note: When using communication via a HART modem, a comunication resistance of 250 Ω has to be taken into account.

Dimensions (in mm)



Order Code		0	Η	X	Χ	X	X	X	X	-	X	X	
Input:	RTD Pt100, 2-wire			0									
Sensor type:	Class A Class B Class AA (B 1/3 DIN)				0 1 3								
Protecting tube:	Ø6x0,5 mm Other protecting tube (to specify) Ø6x0,5 mm with extension 100 mm Other protecting tube with extension	100 mn	n (to	spe	cify)	0 1 2) 3							
Fitting length:	50 mm 100 mm 200 mm 250 mm 400 mm 600 mm 1000 mm Other length (to specify)						0 1 2 3 4 5 6 7						
Process connection:	1/4" 3/8" 1/2" 3/4" 1" 1/4NPT 3/8" NPT 1/2" NPT							0 1 2 3 4 5 6 7					
Electrical connection:	Lateral (standard) Upwards								0 1				
Electrical connection:	M12x1, 4-pole M12x1, 5-pole M12x1, 8-pole Deutsch DT04, 3-pole Deutsch DT04, 4-poe Super Seal 1.5, 3-pole Bayonet (DIN), 4-pole Valve plug, 4-pole Cable, 2 m MIL, 6-pole										0 1 2 3 4 5 6 7 8		
Configuration:	Factory setting ¹⁾ Customized (to specify) ²⁾											0 1	
Other:	Special model												

1) Measuring range: -50...200 °C (LRV...URV) / Damping: 0 s RTD Pt100, 2-wire

2) All settings, which are possible according the technical data, can be selected. For not given values the details of factory-set are used.

Accessories:

Interface HART, USB, software

Order No.: 01310-00220