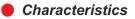
Temperature Sensor Hygiene HART



1510 - RESISTANCE THERMOMETER - RTD - PT100

MHY-

	- Input:	RTD Pt 100, Pt 1000						
	- Measurement range:	-50+200 °C maximum						
	- Accuracy transmitter:	0,3% of range						
	- Accuracy RTD Pt100(0):	Class A, Class AA, Class B						
	- Output:	420 mA HART / RTD / CANopen						
	- Resolution:	16 bit						
	- Configuration:	Via software (HART communication)						
	- Electrical connection:	M12 4-pole, M12 8-pole						
	- Internal protection:	Inside potted completely						
	- Material:	Stainless steel 1.4571, PBT GF30						
	- Protection class:	At least IP65						

Technical Data

Input 1x Pt100 / 1x Pt1000 / 2x Pt100 / 2x Pt1000 Sensor: Connection: 2-wire / 3-wire / 4-wire Class A / Class B / Class AA Accuracy: -50...+200 °C Maximum range: 50 °C Minimum range: Output Transmitter HART: Current: 4...20 mA with superimposed communication signal Connection: 2-wire current loop 3,6...21 mA Current range: 21 mA (sensor break, open circuit, short circuit, underflow) Signal on error: CANopen CiA 404 / CAN 2.0A / CAN 2.0B Transmitter CANopen: Protocol: Number of PDO: 2 transmit PDO Resistance thermometer: Connection lead through onto plug, cable lead through

Measuring Amplifier

• ·		
Transmitter HART:	Combined error: Resolution: Filter: Transmission behaviour: Switch-on delay: Measuring rate: Configuration:	0,3% of range 16 Bit 099 s Linear with temperature <5 s 10 measurements/s Via software (HART-Communication)
Transmitter CANopen:	Accuracy: Resolution: Sampling rate: Baud rate: Configuration:	±0,1 K 16 bit, 0,1 K 20 ms 50 kBit/s1MBit/s Baud rate, module address via LSS

Applications

A stainless steel sensor suitable for application in the industrial hygiene sector. This sensor is very durable, thanks to its compact design, its small dimensions and the materials used in its construction. The programmable transmitter reduces stock levels significantly.



Temperature Sensor Hygiene HART

Technical Data (Continued) Supply Transmitter HART: Current loop: 12...40 VDC Load: R = (U_B-12 V) / 21 mA Reverse voltage protection: Yes (no function, no damage) Transmitter CANopen: Voltage: 8...40 VDC Reverse voltage protection: Yes 500 mW maximum Power input: **Environmental Conditions** Operating temperature: with transmitter: -20...+80 °C without transmitter: -30...+100 °C Storage temperature: -40...+85 °C -50...+200 °C Medium temperature: 25 bar maximum System pressure: uncritical Condensation: **Mechanics** Dimensions: see page 3 Process connection: G1/2" hygienic / immersion probe version Electrical connection: M12 Sensor tube: Ø6 mm Material: Sensor tube: Stainless steel 1.4571 Process connection: Stainless steel 1.4571 Stainless steel 1.4571 Casing: Weight: Immersion probe: approx. 106 g G1/2" hygienic: approx. 170 g Fitting position: Any Equipment protection: Protection class: at least IP65 (Elektronik)

Linear output signal / 2-point calibration

Casing:

Configurable Parameters HART

Measuring amplifier:

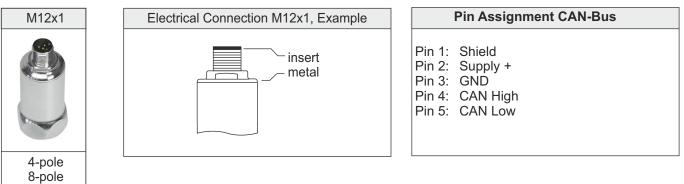
IP68 (Sensor)

inside completely potted

Nominal measuring range start (LRL) / Nominal measuring range end (URL) /

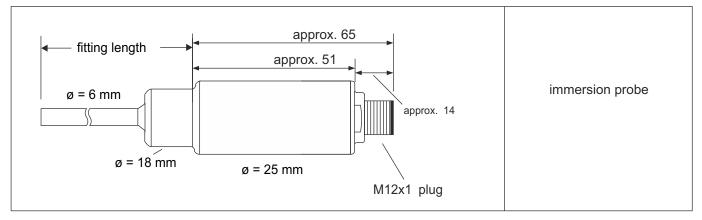
Measuring range start (LRV) / Measuring range end (URV) / Filter function / Adjustment output current / Simulation output current / HART address /

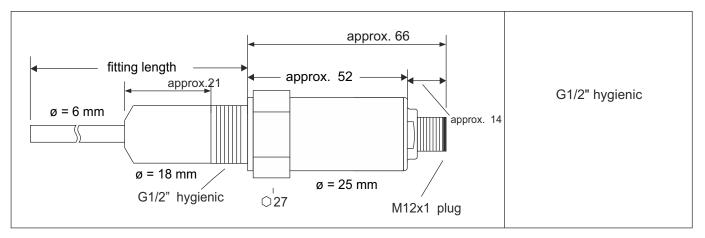
Electrical Connection



Pin Assignment without CAN										
		2-wire	3-wire	4-wire	Transmitter U+ U-					
Connection for 1 sensor		0 0	0 0 0	0 0 0 0	0 0					
M12, 4-pole		32	4 3 2	4 3 2 1	1 3					
M12, 8-pole		3 2	4 3 2	4 3 2 1	1 3					
Connection for 2 sensors										
M12, 4-pole	sensor 1	4 3								
	sensor 2	2 1								
M12, 8-pole	sensor 1	3 2	4 3 2	4 3 2 1						
	sensor 2	7 6	876	8765						

Dimensions, Connection (in mm)





Order Code				v	v			,					V			V
		V	H	X	X	X	X	•	-)	X ·	• X		X	X	X	X
Transmitter:	Without 420 mA HART CANopen		(F G H												
Sensor:	Pt100 Pt1000 2x Pt100 2x Pt1000				1 2 3 4											
Sensor connection:	2-wire 3-wire 4-wire					1 2 3										
Accuracy:	Class A Class B Class AA Class C (auf Anfrage)						1 2 3 4									
Fitting length: ¹⁾	50 mm 100 mm 160 mm 200 mm 250 mm 400 mm 600 mm 1000 mm								50 10 20 25 40 60 A0							
Sensor tube diameter:	6 mm (standard)										6					
Process connection:	G1/2" hygienic Immersion probe											1 2				
Insert electr. connection:	Metal												2]		
Electrical connection:	M12x1, 4-pole M12x1, 8-pole													1 3		
Configuration:	Without Factory setting ²⁾ Customized (please s	pecify	y) ³⁾												0 1 2	
Special model:	No Yes (please specify)															0 1

For coding see price list, in 5 mm steps
Factory setting: Nominal measuring range: -50...200 °C (LRL...URL) / Measuring range: 0...100 °C (LRV...URV) Damping: 0 s
Please select settings as per technical data. For values not given, factory settings will be used.