Sleeve sensor with temperature measuring transducer, calibratable, with Modbus connection

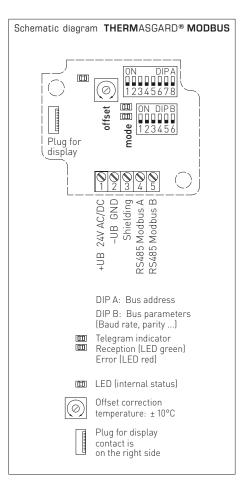


Calibratable temperature measuring transducer with sleeve sensor ${\bf THERM}{\sf ASGARD}^{\it \'e}$ HFTM-Modbus with Modbus connection, enclosure made from impact-resistant plastic with quick-locking screws, with /without optional display for displaying the actual temperature.

The temperature transmitter with remote sensor is used for temperature detection in liquid and gaseous media e.g. by installation inside an immersion sleeve or as a duct sensor. The sensors are factory-calibrated. Adjustment / fine adjustment by the user is possible (zero point offset is adjustable).

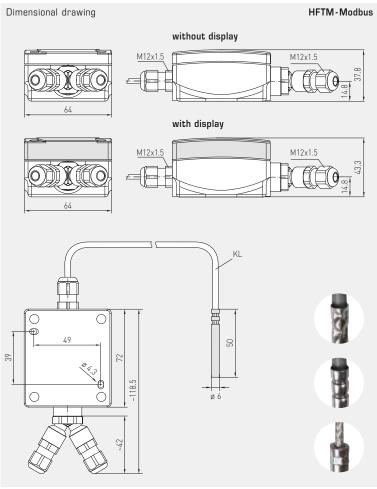
TECHNICAL DATA					
Voltage supply:	24 V AC (±20%) and 1536 V DC				
Power consumption:	< 1.0 VA / 24 V DC; < 2.2 VA / 24 V AC				
Sensor:	Pt1000, DIN EN 60751, class B				
	(Perfect Sensor Protection with IP68)				
Measuring range:	−50+150°C				
Temperature deviation:	±0.2K at +25°C				
Zero point offset:	± 10 °C				
Ambient temperature:	Measuring transducer – 30+ 70 °C				
Medium:	clean air and non-aggressive, non-combustible gases				
Error detection:	sensor breakage, sensor short circuit				
Bus protocol:	Modbus (RTU mode), address range O 247 selectable				
Signal filtering:	0.3 s / 1 s / 10 s				
Protective tube:	stainless steel, V4A (1.4571), $\emptyset = 6 \text{ mm}$,				
(sensor sleeve)	nominal length = 50 mm (other dimensions optional) cable entry stamped (optional rolled)				
Connection cable:	silicone, SiHF, $2 \times 0.25 \text{mm}^2$, cable length (KL) = 1.5 m (other lengths and range limits optional, e.g. PTFE leads up to $+250^{\circ}\text{C}$ or glass fibre with steel wire mesh up to $+350^{\circ}\text{C}$)				
Enclosure:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover for display is transparent!				
Enclosure dimensions:	72 x 64 x 37.8 mm (Tyr 1 without display) 72 x 64 x 43.3 mm (Tyr 1 with display)				
Cable gland:	2x M12x1.5 (Y-adapter); with strain relief, exchangeable, max. inner diameter 6 mm				
Permissible air humidity:	<95% r.H., non-precipitating air				
Protection class:	III (according to EN 60730)				
Protection type:	IP65 (according to EN 60529) humidity-tight stamped IP68 (optional watertight compound-filled*) rolled IP54 (optional glass fibre cable)				
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC Directive 2014 / 30 / EU				
Optional:	two-line display with illumination , programmable, cutout approx. 36 x 15 mm (W x H), for displaying the actual temperature or an individually programmable display value (The Modbus interface allows the display to be individually configured in the 7-segment area and in the dot-matrix area.)				
ACCESSORIES	see table				
MODBUS-Y	Y-adapter for cable gland M16x1.5 (on 2x M12x1.5), plastic (included in the scope of delivery)				
THE-xx	Immersion sleeve, stainless steel V4A or nickel-plated bra Ø = 9 mm, inner diameter of socket 5.2 mm, with adjusting screw M12 x1.5				







Sleeve sensor with temperature measuring transducer, calibratable, with Modbus connection





IP68 (optional) watertight compound-filled*, rolled

IP54 (optional) with glass fibre cable





Type / WG01	Sensor	Output	Туре	Display	Item No.	Price
HFTM-Modbus						
HFTM-MODBUS	Pt1000	Modbus	Remote sensor		1101-1256-0210-000	
HFTM-MODBUS DISPLAY	Pt1000	Modbus	Remote sensor		1101-1256-2210-000	
Extra charge:	Protection type IP68 (sensor sleeve watertight compound-filled) per running metre of connecting lead (silicone/PTFE/glass fibre) other protection sleeve lengths optional				on request on request	
Accessories						
KA-2	Modbus communication adapter with USB/RS485 interface for system connection or/and as an active bus termination resistance				on request	
THE-xx			teel V4A or nickel-plated brass, Ø = ast chapter Accessories!	9 mm		

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