Surface contact/tube contact temperature measuring transducers, including strap, compact variant, calibratable, with multi-range switching and active output



Calibratable surface-contact temperature measuring transducer (compact variant) THERMASGARD® ALTM 1 with eight switchable measuring ranges, continuous output, in an impact-resistant plastic housing with quick-locking screws, optionally with/without display, incl. strap.

The surface-contact sensor is used to detect the temperature on lines, pipes (e.g., cold and warm water) or on heating sections for heating control. The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

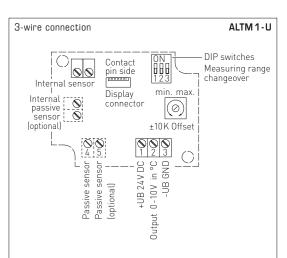
TECHNICAL DATA				
Power supply:	24 V AC / DC (± 10%) for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised ±0.3 V			
Working resistance:	$R_a$ (ohm) = $(U_b-14 V) / 0.02 A$ for I variant			
Load resistance:	$R_L > 5  kOhm$ for U variant			
Power consumption:	< 1.0 VA / 24 V DC; < 2.2 VA / 24 V AC			
Sensor:	Pt1000, DIN EN 60751, class B (Perfect Sensor Protection)			
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, see table (other ranges optional) compact variant: T <sub>max</sub> up to +100°C, operating range -50+100°C with manual zero point correction (± 10 K)			
Deviation, temperature:	typically $\pm 0.2  \text{K}$ at $+25  ^{\circ}\text{C}$			
Output:	0-10V or 420mA			
Connection type:	2- or 3-wire connection			
Housing:	plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), housing cover for display is transparent!			
Housing dimensions:	72 x 64 x 37.8 mm (Tyr 1 without display) 72 x 64 x 43.3 mm (Tyr 1 with display)			
Cable connection:	cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, inner diameter 10.4 mm) or M12 connector according to DIN EN 61076-2-101 (optional on request)			
Electrical connection:	0.14 - 1.5 mm² via terminal screws			
Process connection:	endless strap with metal tightener, (included in the scope of delivery) $\emptyset$ = 13 - 92 mm (1⁄4 - 3"), length $L$ = 300 mm			
Insulating resistance:	$\geq$ 100 M $\Omega$ , at +20 °C (500 V DC)			
Ambient temperature:	measuring transducer -30+70 °C			
Humidity:	<95% r.H., non-precipitating air			
Protection class:	III (according to EN 60 730)			
Protection type:	IP65 (according to EN 60529) Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1)			
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC directive 2014/30/EU			
Optional:	Two-line display with illumination, cutout approx. 36 x15 mm (W x H), for displaying the ACTUAL temperature and the internal diagnostics (measuring range exceeded, measuring range not reached, sensor breakage, sensor short circuit)			



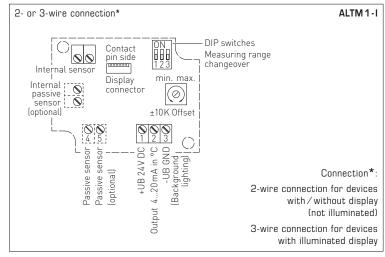


M12 connector (optional on request)

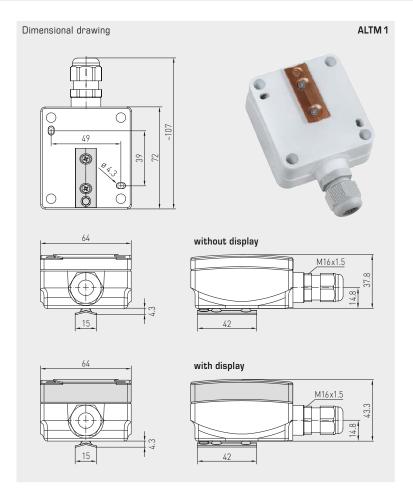




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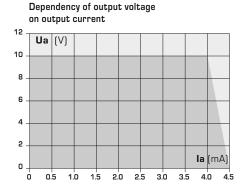




High-performance encapsulation against vibration, mechanical stress and humidity



Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3
−20+150°C	ON	ON	ON
−50 +50°C	OFF	ON	ON
-20 +80°C	ON	OFF	ON
-30 +60°C	OFF	OFF	ON
0 +40°C	ON	ON	OFF
0 +50°C (default)	OFF	ON	OFF
0+100°C	ON	OFF	OFF
0+150°C	OFF	OFF	OFF



THERMASGARD® ALTM 1 Surface contact / tube contact temperature measuring transducers (compact)								
Type/WG01	Sensor	Output	Туре	Display	Item No.	Price		
ALTM 1-I					IP65, I-variant			
ALTM1-I	Pt1000	420 mA	Compact		1101-1112-0219-920	92,62 €		
ALTM1-I <b>LCD</b>	Pt1000	420 mA	Compact		1101-1112-2219-920	137,53 €		
ALTM 1-U					IP65, U-variant			
ALTM1-U	Pt1000	0 -10 V	Compact		1101-1111-0219-920	92,62 €		
ALTM1-U <b>LCD</b>	Pt1000	0 -10 V	Compact		1101-1111-2219-920	137,53 €		
Extra charge:	· ·	Other ranges optional Cable connection with M12 connector according to DIN EN 61076-2-101			on request	22,40 €		

 WLP-1
 Heat-conductive paste, silicone-free
 7100-0060-1000-000
 2,98 €