Surface contact/tube contact temperature measuring transducers, including strap, with detached sensor head, calibratable, with multi-range switching and active output



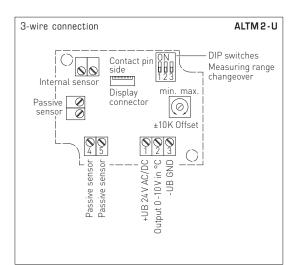
Calibratable tube contact temperature measuring transducers $\textbf{THERM} \texttt{ASGARD}^{\texttt{0}}$ ALTM 2 with eight switchable measuring ranges, internal or remote sensor, continuous output, strap and terminal box enclosure made of impact-resistant plastic, enclosure cover with quick-locking screws, with or without optional display. This surface contact sensor is used for temperature detection on piping and tubes (e.g. cold water and hot-water), or on heating sections for $heating\ system\ control.\ The\ tube\ sensors\ are\ factory-calibrated.\ Adjustment \ / \ fine\ adjustment$ by the user is possible (range and zero point are adjustable).

TECHNICAL DATA					
Power supply:	24 V AC / DC (\pm 10 %) for U variant 1536 V DC for I variant, depending on working resistance, residual ripple stabilised \pm 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				
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, see table (other ranges optional) detached sensor variant: T _{max} over 100°C, operating range –50 +150°C; with manual zero point correction (±10 K)				
Deviation, temperature:	±0.2K at +25°C				
Output:	O-10V or 420mA				
Ambient temperature:	measuring transducer -30+70°C				
Connection type:	2- or 3-wire connection				
Process connection:	endless metal strap and metal tightener (included in the scope of delivery)				
Strap dimensions:	$\emptyset = 13 - 92 \text{mm}$ (1/4 - 3"), length L = 300 mm				
Enclosure:	plastic, 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!				
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:	M16x1.5, including strain relief, exchangeable, max. inner diameter 10,4mm				
Electrical connection:	0.14 - 1.5 mm² via terminal screws				
Connection cable:	silicone, SiHF, $2 \times 0.25 \text{mm}^2$, KL = 1.5 m, ends stripped, with wire end sleeves (optional PTFE leads up to $+250^{\circ}\text{C}$ or glass fibre with steel wire mesh up to $+350^{\circ}\text{C}$)				
Insulating resistance:	\geq 100 M Ω , at +20 °C (500 V DC)				
Humidity:	<95% r.H., non-precipitating air				
Protection class:	III (according to EN 60730)				
Protection type:	IP65 (according to EN 60529) rolled / stamped humidity-tight IP68 (optional sensor sleeve watertight compound-filled)				
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)				

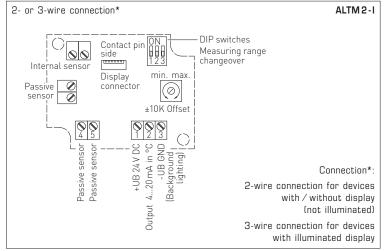






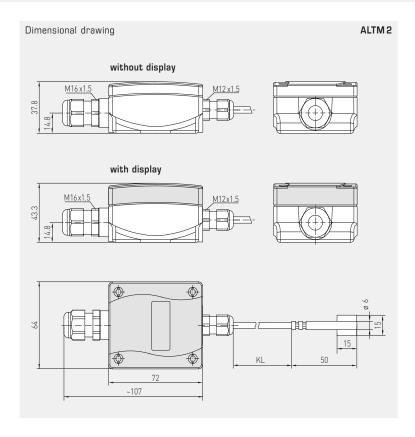


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ALTM 2

Surface contact/tube contact temperature measuring transducers, including strap, with detached sensor head, calibratable, with multi-range switching and active output





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	OFF	ON	OFF
0+100°C	ON	OFF	OFF
0+150°C	OFF	OFF	OFF

Dependency of output voltage

THERMASGARD® ALTM 2 – Surface contact / tube contact temperature measuring transducers									
Sensor	Output	Туре	Display	Item No.	Price				
				IP65, I-variant					
Pt1000	420 mA	Remote sensor		1101-1122-0219-920	94,49 €				
Pt1000	420 mA	Remote sensor		1101-1122-2219-920	137,44 €				
				IP65, U-variant					
Pt1000	0 - 10 V	Remote sensor		1101-1121-0219-920	94,49 €				
Pt1000	0 - 10 V	Remote sensor		1101-1121-2219-920	137,44 €				
other ranges optional Protection type IP 68 (Sensor sleeve watertight compound-filled) 2-wire connecting leads, per running meter (PVC / silicone)				on request	21,42 € 2,86 €				
	Pt1000 Pt1000 Pt1000 Pt1000 other ranges Protection typ	Sensor Output Pt1000 420 mA Pt1000 420 mA Pt1000 0-10 V Pt1000 0-10 V other ranges optional Protection type IP 68 (Sensor sleeve	Sensor Output Type Pt1000 420 mA Remote sensor Pt1000 420 mA Remote sensor Pt1000 0 - 10 V Remote sensor Pt1000 0 - 10 V Remote sensor other ranges optional Other ranges optional	Sensor Output Type Display Pt1000 420 mA Remote sensor Pt1000 420 mA Remote sensor Pt1000 0-10 V Remote sensor Pt1000 0-10 V Remote sensor other ranges optional Protection type IP 68 (Sensor sleeve watertight compound-filled)	Sensor Output Type Display Item No. IP65, I-variant Pt1000 420 mA Remote sensor 1101-1122-0219-920 IP65, U-variant Pt1000 0 - 10 V Remote sensor 1101-1121-0219-920 Pt1000 0 - 10 V Remote sensor 1101-1121-0219-920 Other ranges optional Protection type IP68 (Sensor sleeve watertight compound-filled)				

 WLP-1
 Heat-conductive paste set
 7100-0060-1000-000
 2,85 €