THERMASGARD® ALTM2 - Ether CAT P

 $\label{eq:surface-contact} \mbox{ temperature measuring transducer/pipe surface-contact sensor, with detached sensor, incl. strap, Bluetooth-enabled, with EtherCATP port$

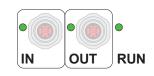


ALTM2-EtherCATP

on Startechnik



EtherCAT P Cable connection and LED status display







Networkable surface-contact temperature measuring transducer (detached version) **THERM**ASGARD® **ALTM2-EtherCATP** with M8 plug-in connector (EtherCATP-encoded), Bluetooth-enabled, in an impact-resistant plastic housing with quick-locking screws, optionally with/without display and bar graph, cable sensor with pipe feeder, incl. strap.

The pipe 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. **EtherCATP-enabled measuring transducer** for industrial requirements with maximum reliability: includes easy PLC integration using the device's ESI configuration file, diagnostics (such as communication failure counter), advanced settings options, access to historical data (min / max) and establishing the sensor's service interval. Optionally with large illuminated display (3-line, customised programming in the 7-segment and dot-matrix range) and bar graph (7-digit, LEDs freely configurable) for graphical display, e.g., as a traffic light indicator.

TECHNICAL DATA

TECHNICAL DATA				
Power supply:	24 V DC via EtherCATP (U _S)			
Power consumption:	< 3 W			
Bus protocol:	EtherCAT			
Radio technology:	Bluetooth (LE)			
Sensor:	Pt1000, DIN EN 60751, class B (Perfect Sensor Protection at IP68)			
Measuring range:	–50+150 °C			
Deviation in temperature:	typically ± 0.2 K at +25 °C			
Medium:	clean air and non-aggressive, non-combustible gases			
Sensor protection:	pipe feeder made of stainless steel V4A (1.4571), \emptyset = 6 mm, L = 50 mm			
Sensor cable:	silicone, SiHF, 2x0.25mm²; cable length (KL) = 1.5m (other lengths and jacket materials, e.g. PTFE or glass fibre with steel mesh, available on request)			
Housing:	Plastic, UV-resistant, polyamide material, 30% glass-globe reinforced, with quick-locking screws (slotted/Phillips head combination), colour traffi white (similar to RAL 9016), housing cover for display is transparent!			
Dimensions:	126 x 90 x 50mm (Tyr 2)			
Cable connection:	M8 plug-in connector, EtherCATP-encoded			
Process connection:	endless strap with metal tightener (included in delivery scope), ${\Bar{D}}=13$ - 92 mm (1/4 - 3"), L = 300 mm			
Ambient temperature:	Measuring transducer –30+70 °C			
Permitted humidity:	<95 % RH, non-precipitating air			
Protection class:	III (according to EN 60730)			
Protection type housing:	IP 54 (according to EN 60529)			
Protection type sensor:	IP65 (according to EN 60529) sleeve humidity-tight (standard) IP68 (according to EN 60529) sleeve water-tight (optional)			
Standards:	CE conformity, according to EMC Directive 2014/30/EU, according to RED 2014/53/EU			
Equipment:	Display with illumination, 3-line, customised programming, cutout approx. W51 x H29mm, to display the actual temperature or a customised display value. Bar graph, 7-digit, LEDs freely configurable, to graphically display the reading.			
ACCESSORIES	see table			
EtherCAT P	LED status display			
1. LED	"IN"			
off	no connection to upstream EtherCAT module			
illuminated	LINK: connection to upstream EtherCAT module			
blinking	ACT: communication with upstream EtherCAT module			
2. LED	"OUT"			
off	no connection to downstream EtherCAT module			
illuminated	LINK: connection to downstream EtherCAT module			
blinking	ACT: communication with downstream EtherCAT module			
3. LED	"RUN"			
off	EtherCAT module is in "Init" state			
quickly blinking	EtherCAT module is in "Pre-Operational" state			
slowly blinking	EtherCAT module is in "Safe-Operational" state			
illuminated	EtherCAT module is in "Operational" state			
	the cable connection.			

S+S REGELTECHNIK

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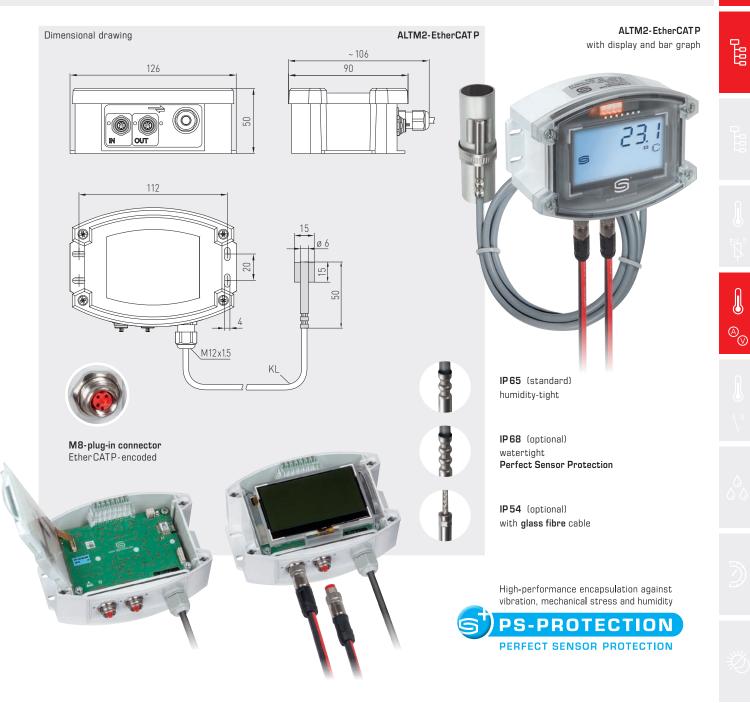
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THERMASGARD® ALTM2-EtherCATP

Surface-contact temperature measuring transducer/pipe surface-contact sensor, with detached sensor, incl. strap, Bluetooth-enabled, with EtherCATP port





THERMASGARD® ALTM2-EtherCATP		Surface-contact temperature measuring transducer with detached sensor, with EtherCATP port				
Type / WGO2	Measuring Range Temperature	Sensor	Output	Bar graph Display	ltem No.	Price
ALTM2-ECATP xx		÷				
ALTM2-ECATP	–50+150 °C	Pt1000	EtherCAT P		2001-2171-9100-001	357,68 €
ALTM2-ECATP LCD	–50+150 °C	Pt1000	EtherCAT P		2001-2172-9100-001	403,95 €
Note:	Cable connection wit	Cable connection with M8 plug-in connector (EtherCATP-encoded)				
Extra charge:		Protection type IP68 (sensor sleeve watertight compound-filled) per running metre of connecting lead (silicone/PTFE/glass fibre)			on request	3,40 €

ACCESSORIES				
WLP-1	Heat-conductive paste, silicone-free			

For further information, see last chapter Accessories!

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