

**Outside temperature / wet room temperature measuring transducers, calibratable, with Modbus connection**

**ATM 2 - Modbus - T3**

Calibratable outside temperature measurement transducer **THERMASGARD® ATM 2 - Modbus - T3**, with Modbus connection, in an impact-resistant plastic housing with quick-locking screws, optionally with /without display, measures temperature (-50...+150 °C). International system of units **SI** (default) can be changed to **imperial** (via Modbus).

The on-wall sensor is used to detect the temperature in gaseous media. It is used outside or in wet rooms, in cold storage buildings and greenhouses, in the industrial sector and in agriculture. Installation on outside walls is preferably performed on the north side or in a protected place. In case of direct solar irradiation, we recommend using our sun and ball-impact protection hood **WS01** or **WS04** (accessories).

**Innovative Modbus sensor** with galvanically separated RS485 Modbus interface, selectable bus termination resistance, DIP switch for setting the bus parameters and bus address in current-free state, internal LEDs for telegram status display, two separate push-in terminals and large three-line display (illuminated, with customised programming in the 7-segment range and dot-matrix range). Uses **internal diagnostics** to detect sensor breakage or sensor short circuit as errors. The error messages can be retrieved via Modbus and are shown on the display. The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

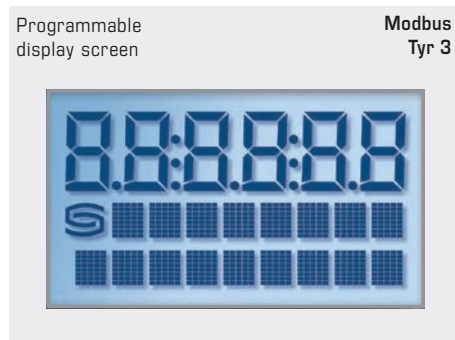
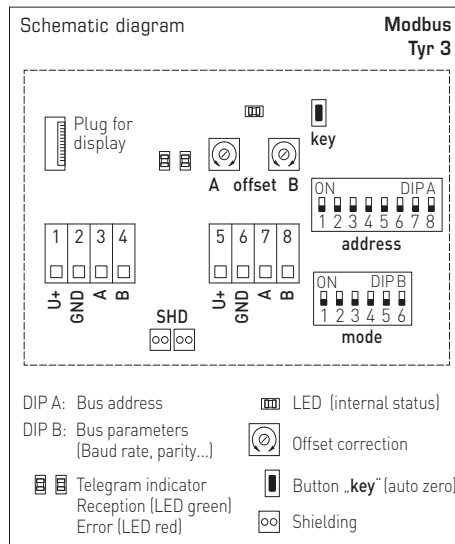


Device variant with **M12 connector** (optional on request)



**TECHNICAL DATA**

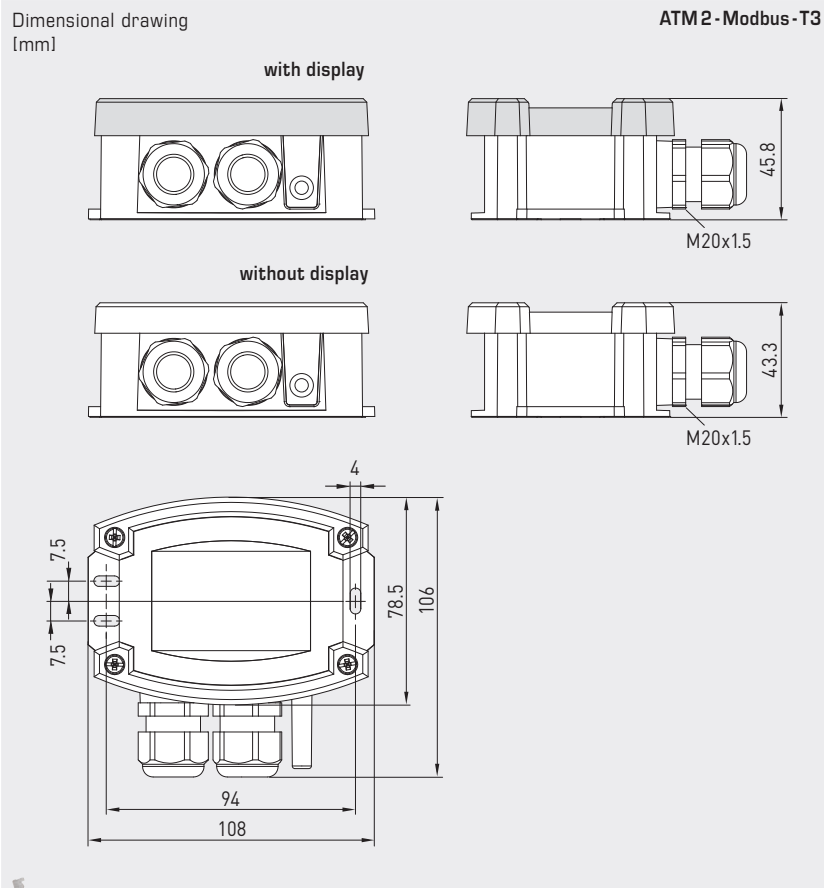
Voltage supply:	24 V AC (±20%); 15...36 V DC
Power consumption:	< 1.2 W / 24 V DC; < 1.8 VA / 24 V AC
System of units:	<b>SI</b> (default) or <b>Imperial</b> (switchable via Modbus)
Data points:	Temperature [°C] [°F]
Sensor:	Pt1000, DIN EN 60751, class B
Measuring range:	-50...+150 °C
Deviation, temperature:	typically ± 0.2 K at +25 °C
Zero point offset:	± 10 °C
Ambient temperature:	Measuring transducer -30...+70 °C
Medium:	clean air and non-aggressive, non-combustible gases
Bus protocol:	Modbus (RTU mode), address range 0... <b>247</b> selectable
Baud rate:	9600, 19200, 38400 Baud
Signal filtering:	0.3 s / 1 s / 10 s
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:	108 x 78.5 x 43.3 mm (Tyr 3 without display) 108 x 78.5 x 45,8 mm (Tyr 3 with display)
Cable connection:	<b>cable gland</b> , plastic (2x M20 x 1.5; with strain relief, exchangeable, inner diameter 8 - 13 mm) or <b>M12 connector</b> according to DIN EN 61076-2-101 (optional on request)
Electrical connection:	0.2 - 1.5 mm², using push-in terminals
Process connection:	by screws
Permissible air humidity:	< 95% RH, non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	<b>IP 65</b> (according to EN 60 529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326, according to EMC Directive 2014 / 30 / EU
Features:	<b>Display with illumination</b> , three-line, programmable, cutout approx. 51 x 29 mm (W x H), for displaying the actual temperature, error message or an individually programmable display value
Internal diagnostics:	<b>Error 1</b> at sensor breakage <b>Error 2</b> at sensor short circuit





S+S REGELTECHNIK

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ATM 2 - Modbus - T3 with display



THERMASGARD® ATM 2 - Modbus - T3 Outside temperature / wet room temperature measuring transducers

Type / WG01	Sensor	Output	Display	Item No.	Price
<b>ATM 2 - Modbus - T3</b>					
ATM2-Modbus-T3	Pt1000	Modbus		1101-12C6-0000-000	167,39 €
ATM2-Modbus-T3 LCD	Pt1000	Modbus	■	1101-12C6-4000-000	221,60 €
Optional:	Cable connection with <b>M12 connector</b> according to DIN EN 61076-2-101			on request	
<b>Note:</b>	System of units <b>SI</b> (default) or <b>imperial</b> (can be changed via Modbus).				
<b>ACCESSORIES</b>					
<b>KA2-Modbus</b>	<b>Communication adapter</b> (with USB and RS485 interface) for system connection (incl. quick-start software)			1906-1200-0000-100	213,99 €
<b>LA-Modbus</b>	<b>Line termination device</b> (with terminating resistor) as an active bus termination of RS485 networks			1906-1300-0000-100	79,81 €
<b>WS-01</b>	<b>Sun and ball-impact protection hood</b> , 184 x 180 x 80 mm, stainless steel <b>V2A</b> (1.4301)			7100-0040-2000-000	31,77 €
<b>WS-04</b>	<b>Weather and sun protection hood</b> , 130 x 180 x 135 mm, stainless steel <b>V2A</b> (1.4301)			7100-0040-7000-000	37,49 €

For further information, see last chapter Accessories!