

Outside temperature / wet room temperature measuring transducers, calibratable, with Y-adapter, with Modbus connection (not galvanically isolated)

Calibratable outside temperature measurement transducer THERMASGARD® ATM 2 - Modbus-SD, with Modbus connection (Y-adapter), in an impact-resistant plastic housing with quick-locking screws, optionally with /without display, measures temperature (-50...+150 °C).

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 the use of our sun and ball-impact protection hood WS01 or WS04 (accessories) or the device version with the installed sun protection SS02 (on request).

Modbus sensor SD with RS485 Modbus interface (not galvanically isolated), selectable bus termination resistance, DIP switch for setting the bus parameters and bus address in current-free state, internal LEDs for telegram status display (illuminated, with customised programming). Uses internal diagnostics to detect sensor breakage or sensor short circuit as errors. The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible.

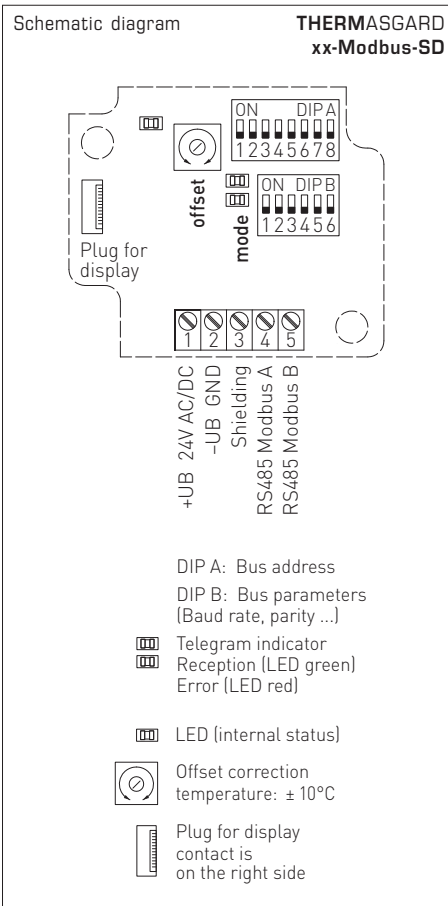
ATM 2 - Modbus-SD



ATM 2 - Modbus-SD with SS-02

TECHNICAL DATA

Voltage supply:	24 V AC (± 20 %) and 15...36 V DC (± 10 %)
Power consumption:	< 1.0 W / 24 V DC < 2.2 VA / 24 V AC
Sensor:	Pt1000, DIN EN 60751, class B (Perfect Sensor Protection)
Measuring range:	-50...+150 °C
Temperature deviation:	typically ± 0.2 K at +25 °C
Zero point offset:	± 10 °C
Medium:	clean air and non-aggressive, non-combustible gases
Error detection:	sensor breakage, sensor short circuit
Communication:	RS485 interface, not galvanically isolated , Bus termination activatable via DIP switches.
Bus protocol:	Modbus (RTU mode), address range 0...247 selectable
Baud rate:	9600, 19200, 38400 Baud
Signal filtering:	0.3 s / 1 s / 10 s
Protective tube:	made from stainless steel V4A (1.4571), Ø 6 mm, NL = 65 mm
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 dimension:	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 2x M 12 x 1.5 (Y-adapter); with strain relief, exchangeable, max. inner diameter 6 mm
electrical connection:	0.14 - 1.5 mm², via terminal screws
Process connection:	by screws
Ambient temperature:	measuring transducer -30...+70 °C
Permissible humidity:	< 95 % RH, non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP65 (according to EN 60 529) housing tested, TÜV SÜD, Report No.713139052 (Tyr 1)
Standards:	CE conformity, electromagnetic compatibility according to EMC directive 2014 / 30 / EU, EN 61326
Optional:	display with illumination , two-line, programmable, cutout approx. 36x15 mm (W x H), for displaying the actual temperature, error message or an individually programmable display value
ACCESSORIES	(see table)

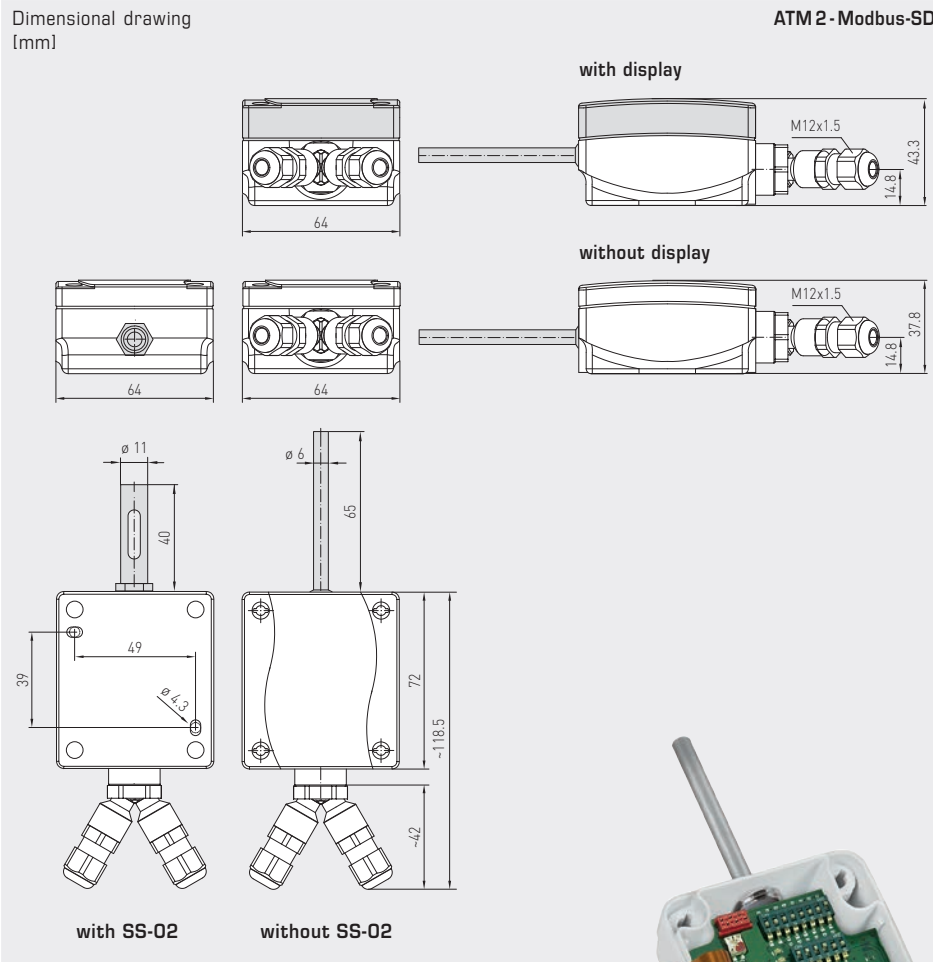




S+S REGELTECHNIK

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Dimensional drawing [mm]



ATM 2-Modbus-SD with display



High-performance encapsulation against vibration, mechanical stress and humidity



THERMASGARD® ATM 2 - Modbus - SD		On-wall temperature transducers with Modbus connection (not galvanically isolated)		
Type / WG01B	Output	Display	Item No.	Price
ATM 2-Modbus-SD				
ATM 2-Modbus-SD	Modbus		1101-1296-0000-000	128,46 €
ATM 2-Modbus-SD LCD	Modbus	■	1101-1296-2000-000	180,90 €
Extra charge:	with sun protection hood SS 02			on request
ACCESSORIES				
KA2-Modbus	Communication adapter (USB/RS485) for system connection		1906-1200-0000-100	220,41 €
LA-Modbus	Line termination device (with terminating resistor) as an active bus termination		1906-1300-0000-100	82,20 €
WS-01	Sun and ball-impact protection hood , 184 x 180 x 80 mm, stainless steel V2A (1.4301)		7100-0040-2000-000	32,72 €
WS-04	Weather and sun protection hood , 130 x 180 x 135 mm, stainless steel V2A (1.4301)		7100-0040-7000-000	38,61 €

For further information, see last chapter Accessories!