

Outside temperature/wet room temperature measuring transducers, calibrateable, with multi-range switching and active output

ATM 2

Calibrateable outside temperature measuring transducer THERMASGARD® ATM with eight switchable measuring ranges, internal or remote sensor, continuous output, terminal box enclosure made of impact-resistant plastic, enclosure cover with quick-locking screws, optional with or without display. For the detection of outside temperatures, temperatures in wet room areas, e.g. for installation on outside walls, in cold storage buildings and greenhouses, in the industrial sector and in agriculture. Installation in outdoor areas preferably at the north side of a building or in a protected place. In case of direct solar radiation, a sunshade protector should be used. These outdoor sensors are factory-calibrated. Adjustment/fine adjustment by the user is possible (zero point offset is adjustable).

**TECHNICAL DATA:**

Power supply: ..... 24V AC/DC  $\pm 10\%$  for output 0-10V  
15-36V DC for output 4...20mA (depending on working resistance)

Sensor: ..... Pt1000, DIN EN 60751, class B,  
sensor inside external stainless steel sensor tube, 1.4571, V4A

Measuring ranges: ..... **multi-range switching**  
**with 8 switchable measuring ranges,**  
see table (other ranges optional)  
operating range -30...+70 °C  
**with manual zero point correction ( $\pm 10K$ )**

Output: ..... 0-10V or 4...20mA

Ambient temperature: ..... measuring transducer -30...+70 °C

Connection type: ..... 2- or 3-wire connection

Process connection: ..... by screws

Enclosure: ..... plastic, material polyamide, 30% glass-globe-reinforced,  
**with quick-locking screws,**  
colour pure white (similar RAL9010)

Dimensions: ..... 72 x 64 x 39.4 mm

Cable gland: ..... M 16, including strain relief

Electrical connection: ..... 0.14 - 1.5 mm<sup>2</sup> via terminal screws

Humidity: ..... <95% r.H., non-precipitating air

Protection class: ..... III (according to EN 60730)

Protection type: ..... **IP 65** (according to EN 60529)

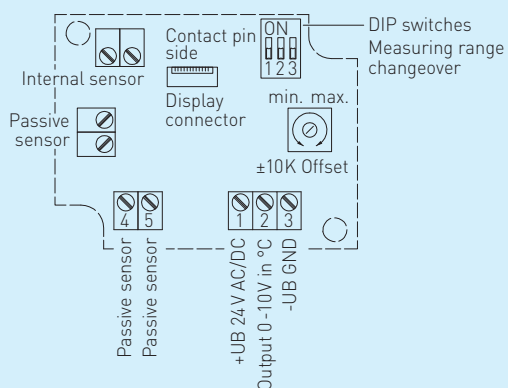
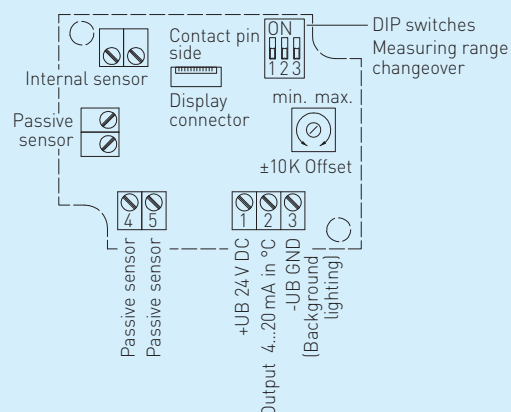
Standards: ..... CE conformity, electromagnetic compatibility  
according to EN 61326:2006,  
according to EMC directive 2004/108/EC

Optional: ..... single-line display with illumination,  
cutout 37 x 15 mm (W x H),  
for displaying actual temperature

ATM 2  
with SS-02**Connection\*:**

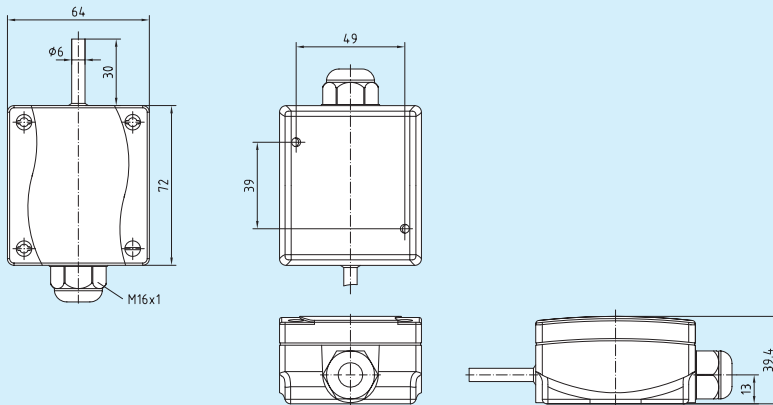
2-wire connection for devices  
with / without display (not illuminated)

3-wire connection for devices  
with illuminated display

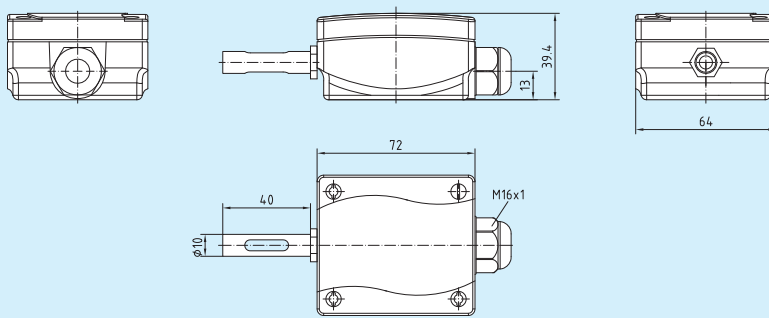
**3-wire  
connection****ATM 2-U****2- or 3-wire  
connection\*\*****ATM 2-I**

Dimensional drawing

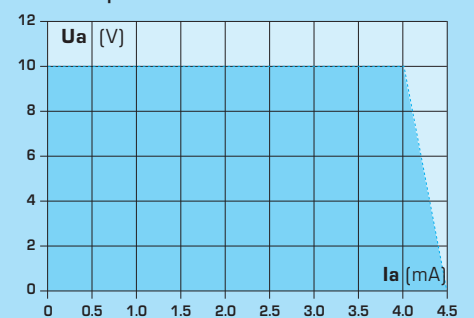
ATM2


ATM2  
with display


Dimensional drawing

ATM2  
with SS-02


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

Dependency of output voltage  
on output current


### THERMASGARD® ATM2

Type / WG1	Sensor	Output
ATM 2-I	Pt 1000 (external)	4...20 mA
ATM 2-U	Pt 1000 (external)	0-10 V
ATM xx Display	Single-line display with illumination	
Optional:	Other measuring ranges on request.	
Extra charge:	SS-02 Sunshade and radiation protection (for ATM 2 only)	
Accessories:	SS-01 Sunshade and ball game protection	