

ATM2

Outdoor temperature sensor, active



Summary

The ATM2 temperature sensor is an active analog room or outside temperature sensor for universal use. They provide output signal 0...10 V or 4...20 mA DC.

Application

- HVAC systems – air temperature control
- monitoring of air temperature in industrial rooms

Function

The sensor uses a Pt1000 sensing element, the signal of which is electronically processed and available at the screw terminals. Temperature range is -30 to +70 °C. Other temperature ranges are optional (see table). Do not exceed maximum environment temperature!

The sensors are intended for operating in any environment. They do not need any servicing or maintenance and can be mounted in any position by 2 or 4 screws at any flat surface.

Technické údaje

Power	24 V AC / DC $\pm 10\%$ for output 0 ...10 V 15 ...36 V DC for output 4 ...20mA (depending on working resistance)
Measuring range	-30 ... 70 °C
Load	-U: min. 5 k Ω -I: max. 500 Ω (at 24V; $R=(U-14 V)/0.02 A$)
Outside temperature	-30...70 °C
Protection degree	IP65 (according to EN 60 529)
Electrical connections	Screw terminals for wires 0.14 ... 1.5 mm ²
Cover	ABS, 30% glass fibre reinforced, colour white, similar to RAL 9010; cover for display is transparent
Weight	< 0,1 kg
Optional	LCD display 36 x 15 mm
Dimensions	see below

Sensor types

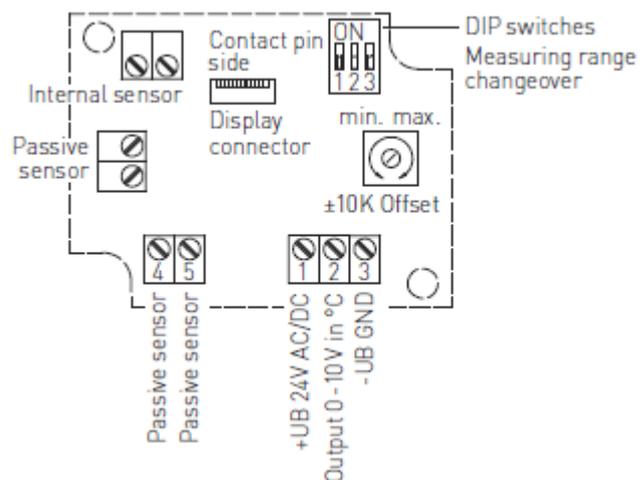
Type	Output signal	LCD display
ATM2-U	0...10 V	no
ATM2-I	4...20 mA	no
ATM2-U Display	0...10 V	yes
ATM2-I Display	4...20 mA	yes

Accessories

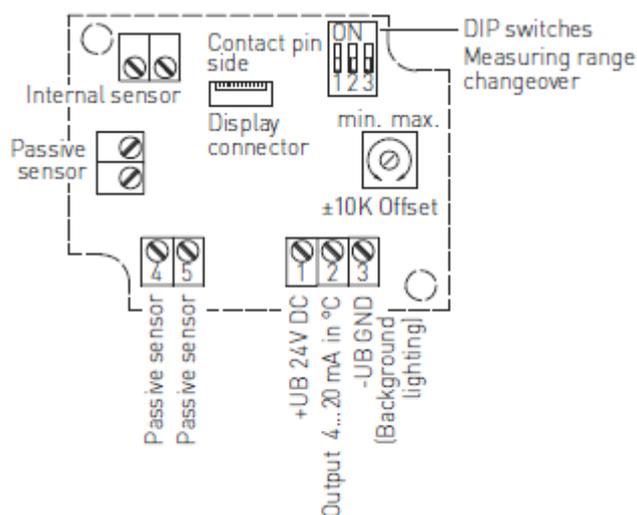
SS-01	included in order	sunshade and ball game protection
SS-02	optional	sunshade and radiation protection

Terminals

ATM-U



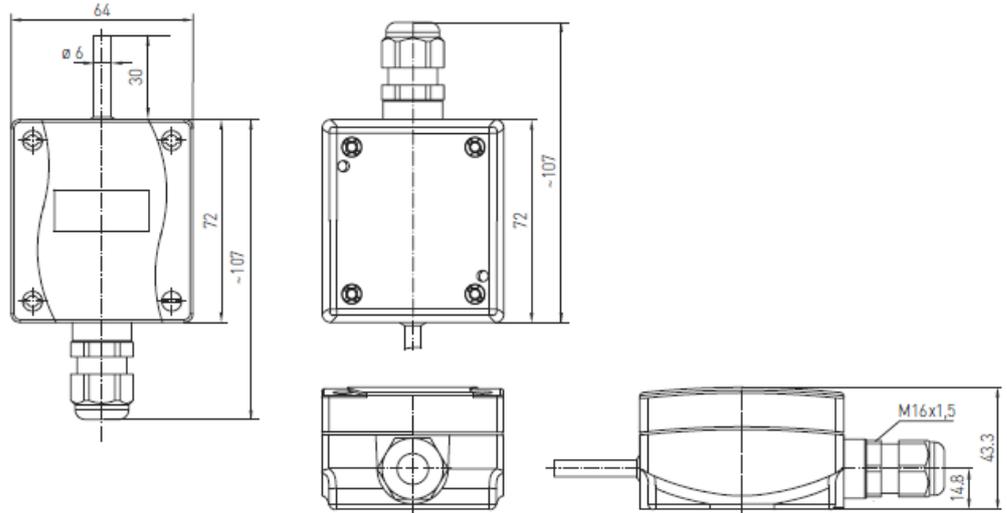
ATM-I



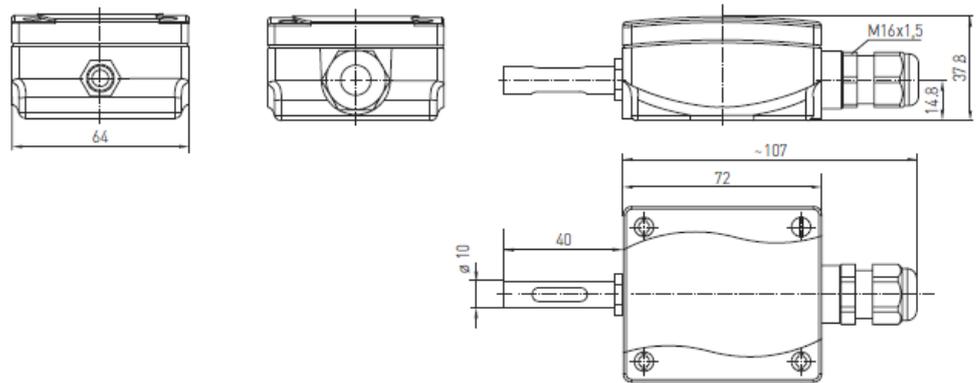
Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3
-20°C...150°C	ON	ON	ON
-50°C...50°C	OFF	ON	ON
-20°C...80°C	ON	OFF	ON
-30°C...60°C	OFF	OFF	ON
0°C...40°C	ON	ON	OFF
0°C...50°C	OFF	ON	OFF
0°C...100°C	ON	OFF	OFF
0°C...150°C	OFF	OFF	OFF

Dimensions

ATM2 Display



ATM2 with optional SS02



08/2013 Subject to technical changes.