# THERMASGARD® ATM2-EtherCAT P

**On-wall / outdoor- / wet room temperature measuring transducers, Bluetooth-enabled, with EtherCATP port**

**S+S REGELTECHNIK**

Networkable outdoor temperature measuring transducer **THERM**ASGARD® **ATM2-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.
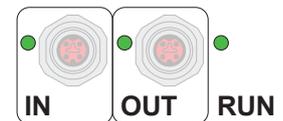
The on-wall sensor is used to detect the temperature in gaseous media. It is used outdoors or in wet rooms, in cold storage buildings and greenhouses, in the industrial sector and in agriculture. Installation on outside walls is preferably performed on the north side or in a protected place. In case of direct solar irradiation, the weather and sun protection hood **WS03** (accessory) is to be used. 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.

ATM2-EtherCAT P



EtherCAT P
Cable connection and
LED status display



**IN**   **OUT**   **RUN**

## TECHNICAL DATA

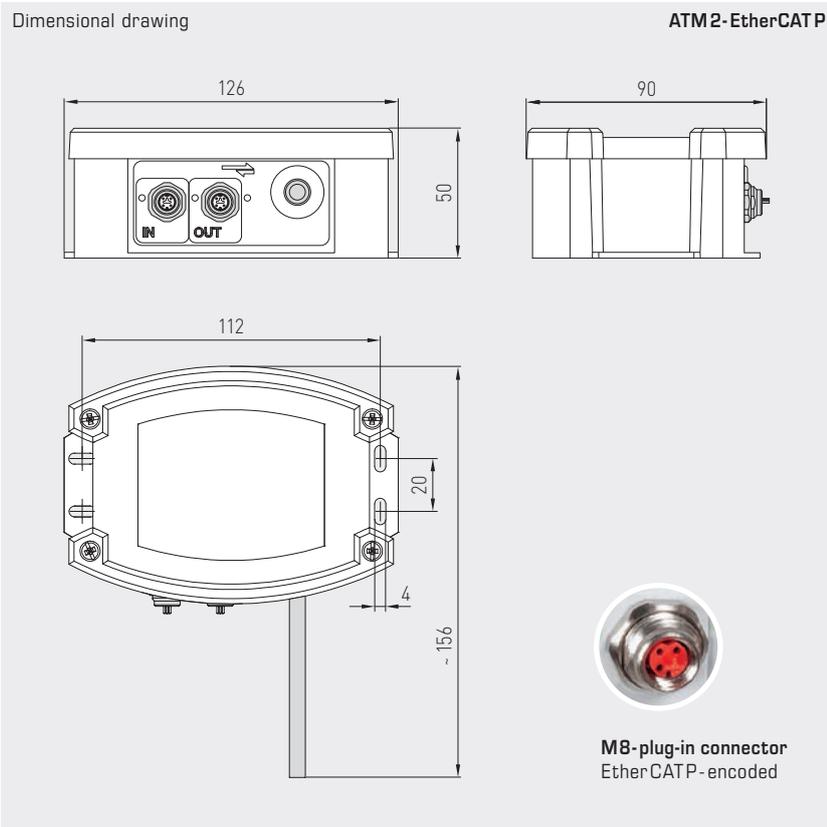| | |
|---|---|
| Power supply: | 24VDC via EtherCATP ($U_S$) |
| Power consumption: | < 3W |
| Bus protocol: | **EtherCAT** |
| Radio technology: | **Bluetooth** (LE) |
| Sensor: | Pt1000, DIN EN 60751, class B  (**Perfect Sensor Protection**) |
| Measuring range: | −50...+150°C |
| Deviation in temperature: | Typically ± 0.2K at +25°C |
| Medium: | Clean air and non-aggressive, non-combustible gases |
| Protective tube: | Stainless steel, **V4A** (1.4571), Ø = 6mm (see dimensional drawing) |
| Housing: | Plastic, UV-resistant, polyamide material, 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! |
| Dimensions: | 126 x 90 x 50mm  (Tyr 2) |
| Cable connection: | **M8 plug-in connector**, EtherCATP-encoded |
| Ambient temperature: | Measuring transducer −30...+70°C |
| Permitted humidity: | < 95% RH, non-precipitating air |
| Protection class: | III  (according to EN 60730) |
| Protection type: | **IP 54**  (according to EN 60529)  when built-in |
| 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. W 51 x H 29mm, 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 status LEDs are next to the cable connection.** | |

Display screen     **xx-ECATP**
Reading     **Tyr 2**



Temperature

Programmable     **xx-ECATP**
display screen     **Tyr 2**

On-wall / outdoor- / wet room temperature
measuring transducers, Bluetooth-enabled,
with EtherCATP port

Dimensional drawing                                    ATM 2 - EtherCAT P



126

90

112

50

20

4

~156

**M8-plug-in connector**
Ether CAT P-encoded

ATM 2 - EtherCAT P
with display and bar graph



**WS-03**
Weather and sun protection hood,
(optional)





High-performance encapsulation against
vibration, mechanical stress and humidity

**PS-PROTECTION**
PERFECT SENSOR PROTECTION

| THERMASGARD® ATM 2 - EtherCAT P | On-wall temperature sensor, with EtherCATP port | | | | | |
|---|---|---|---|---|---|---|
| Type / WG02 | Measuring Range Temperature | Sensor | Output | Bar graph Display | Item No. | Price |
| **ATM 2-ECATP xx** | | | | | | |
| ATM2-ECATP | –50…+150 °C | Pt1000 | EtherCAT P | | 2001-6201-9100-001 | **345,85 €** |
| ATM2-ECATP **LCD** | –50…+150 °C | Pt1000 | EtherCAT P | ☐ ◼ | 2001-6202-9100-001 | **392,10 €** |
| **Note:** | Cable connection with **M8 plug-in connector** (EtherCATP-encoded) | | | | | |

| ACCESSORIES | | | |
|---|---|---|---|
| **WS-03** | **Weather and sun protection hood,** 200 x 180 x 150 mm, stainless steel **V2A** (1.4301) | 7100-0040-6000-000 | **44,74 €** |
| | For further information, see last chapter Accessories! | | |