

S+S Regeltechnik 1101-1191-0009-900

THERMASGARD ATM2 Outdoor Temperature Sensor User Manual

BRAND: S+S REGELTECHNIK

Model: 1101-1191-0009-900

1. Product Overview

The S+S Regeltechnik THERMASGARD ATM2 is a calibratable outdoor temperature transmitter designed for precise temperature measurement in various outdoor environments. It features a robust housing made of impact-resistant plastic and incorporates quick-release screws for ease of installation and maintenance.

Key features include:

- Eight switchable measuring ranges for versatile application.
- Option for internal or external sensor configuration.
- Provides continuous output for reliable data transmission.
- Available with or without an integrated display.





Figure 1: Front view of the THERMASGARD ATM2 Outdoor Temperature Sensor, showcasing its robust white plastic housing and the metallic temperature probe extending from the top.

2. Safety Information

Please read and understand all safety instructions before installing or operating the device. Failure to follow these

instructions may result in property damage, injury, or death.

- **Electrical Safety:** Installation and wiring must be performed by qualified personnel in accordance with all local and national electrical codes. Ensure power is disconnected before any wiring or maintenance.
- **Environmental Conditions:** The sensor is designed for outdoor use. However, avoid installing it in locations subject to extreme physical impact or direct, prolonged submersion in water.
- **Handling:** Handle the device with care. Do not drop or subject it to excessive force.
- **Modifications:** Do not attempt to modify or repair the device. Unauthorized modifications will void the warranty and may pose safety risks.

3. Setup and Installation

The THERMASGARD ATM2 sensor is designed for straightforward installation. Ensure you have the necessary tools and follow local electrical codes.

1. **Mounting Location:** Select a suitable outdoor location that accurately represents the ambient temperature, away from direct sunlight, heat sources, or strong air currents that could affect readings. Consider mounting on a north-facing wall if possible.
2. **Mounting the Device:**
 - Open the housing using the quick-release screws.
 - Secure the base of the sensor to the chosen surface using appropriate screws (not included). Ensure it is mounted firmly.
3. **Wiring:**
 - Route the necessary electrical cables through the cable gland at the bottom of the housing.
 - Connect the power supply and output signals to the designated terminals inside the sensor. Refer to the wiring diagram provided with the device for specific connections.
 - Ensure all connections are secure and properly insulated.
4. **Sensor Configuration (if applicable):** If your model allows for internal/external sensor selection or range switching, configure these settings according to your application requirements before closing the housing.
5. **Close Housing:** Securely close the housing using the quick-release screws, ensuring a tight seal to protect against environmental elements.



Figure 2: Side view of the THERMASGARD ATM2 Outdoor Temperature Sensor held in a hand, illustrating its compact size and approximate dimensions (6.7 inches / 17 cm in height).

4. Operating Instructions

Once properly installed and powered, the THERMASGARD ATM2 sensor operates continuously to provide temperature readings.

- **Power On:** Apply power to the device. The sensor will begin taking measurements immediately.
- **Data Output:** The sensor provides a continuous output signal (e.g., 0-10V, 4-20mA depending on model and configuration) corresponding to the measured temperature. This signal can be read by a compatible control system, PLC, or display unit.
- **Calibration:** The ATM2 is a calibratable sensor. If recalibration is required, refer to the detailed calibration procedure in the full technical datasheet or consult a qualified technician. This typically involves adjusting internal potentiometers or software settings to match a known reference temperature.
- **Measuring Ranges:** The sensor supports eight switchable measuring ranges. Ensure the selected range matches your application's requirements for optimal accuracy.

5. Maintenance

Regular maintenance helps ensure the longevity and accuracy of your THERMASGARD ATM2 sensor.

- **Cleaning:** Periodically clean the exterior of the sensor housing with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the temperature probe is free from debris.
- **Inspection:** Annually inspect the housing for any signs of damage, cracks, or loose quick-release screws. Check the cable gland for a secure seal.
- **Recalibration:** Depending on the application and required accuracy, periodic recalibration may be necessary. Consult your system's maintenance schedule or a qualified technician.
- **Environmental Check:** Ensure the area around the sensor remains clear of obstructions that could affect airflow or expose the sensor to unintended heat/cold sources.

6. Troubleshooting

If you encounter issues with your THERMASGARD ATM2 sensor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No output signal / Incorrect reading	No power; Incorrect wiring; Sensor fault; Incorrect measuring range selected.	Check power supply; Verify wiring connections against diagram; Check sensor for physical damage; Ensure correct measuring range is set.
Fluctuating readings	Sensor exposed to drafts or direct sunlight; Electrical interference.	Relocate sensor to a more stable environment; Check for proper grounding and shielding of cables.
Display (if present) is blank	No power; Display fault.	Verify power supply; Contact support if power is confirmed.

If the problem persists after attempting these solutions, please contact S+S Regeltechnik customer support.

7. Specifications

Attribute	Detail
Manufacturer	S+S Regeltechnik GmbH
Part Number	1101-1191-0009-900
Product Dimensions	12 x 12 x 12 cm
Item Model Number	1101-1191-0009-900
Item Package Quantity	1
Number of Pieces	1
Measurement System	Metric
Included Components	Device and user manual
Batteries Required?	No
Item Weight	120 g
ASIN	B07CL2T4VC
Date First Available	April 3 2024

8. Warranty and Support

Warranty: The THERMASGARD ATM2 sensor comes with a 1-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, unauthorized modification, or acts of nature.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact S+S Regeltechnik customer service. Have your model number (1101-1191-0009-900) and date of purchase ready when contacting support.

For more information, visit the official S+S Regeltechnik website or consult your local distributor.