ST0300



SPECIFICATIONS

Outdoor Temperature Sensor

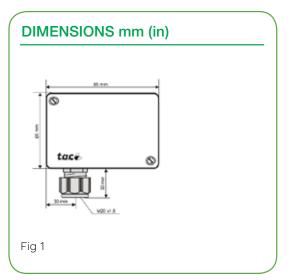
STO300 is an electronic temperature transmitter that converts the measurement into an electric signal 4–20 mA.

The transmitter is supplied as a complete unit, comprising the sensing element, the amplifier mounted in a housing, which is resistant to ultraviolet light.

The transmitter is intended for mounting on an outside wall, on the north side where possible.

The transmitter is connected over a 2-wire cable, which serves both as power supply and signal transmission.

The reading of the measured signal is done over an external load resistance RL. The supply voltage UM is the total of the voltage at the outdoor transmitter UG and the voltage drop across the load resistor and the wire resistances.





[Field Devices Europe] STD660

PARTS

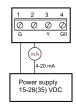
| Part Number | Order Code | °C | °F | g | lb |
|--------------|--------------|--------|---------|-----|------|
| ST0300-50/50 | 0-069-2050-0 | -50/50 | -58/122 | 100 | 0.22 |

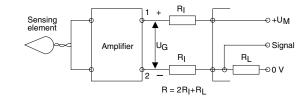
WIRING

The transmitter will operate even if the cable commections at 2 and 3 are reversed.

Cable: 0,2 - 1,5 mm²

Note! Avoid contact with the sensor terminals if the connection wires are live.





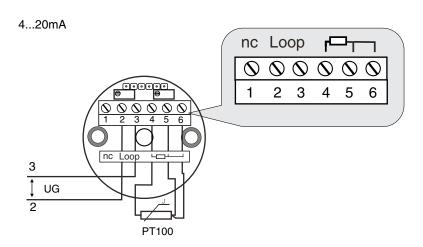
ADJUSTMENT

The transmitter is factory calibrated for the required range within the specified accuracy prior to delivery. Any further calibration should normally not be necessary. The sensor and hte electronic unit are calibrated together. If either of these are replaced the transmitter is no longer in calibration.

The built in amplifier is equipped with two trim potentiometers:

ZERO to adjust the lower end of the range, 4 mA. SPAN to adjust the upper end of the range, 20 mA.

When calibrating, adjust ZERO first, and then SPAN. Due to a certain degree of interaction, the adjustment process must be repeated several times.



UG=15...36 V DC

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