

STO300

Outdoor Temperature Sensor



Product Description

The STO300 is an electronic temperature transmitter that converts the measured value into an analogue electrical signal of either 4 ... 20 mA or 0...10 V (field selectable).

The transmitter is supplied as a complete unit, comprising the sensing element and amplifier mounted within a plastic enclosure, complete with circular cover resistant to ultraviolet light.

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

Electrical connection is via 2 or 3-wire cable, dependant on the output signal type selected.

The temperature measurement range is field selectable to meet most application needs.

Available Products

Part Number	Model Number	Description
006920501	STO300	Outdoor Temperature Transmitter

Features

- Field-selectable output
- Multiple measurement ranges
- Ultraviolet resistant cover
- Simple installation
- Low power consumption

Specifications

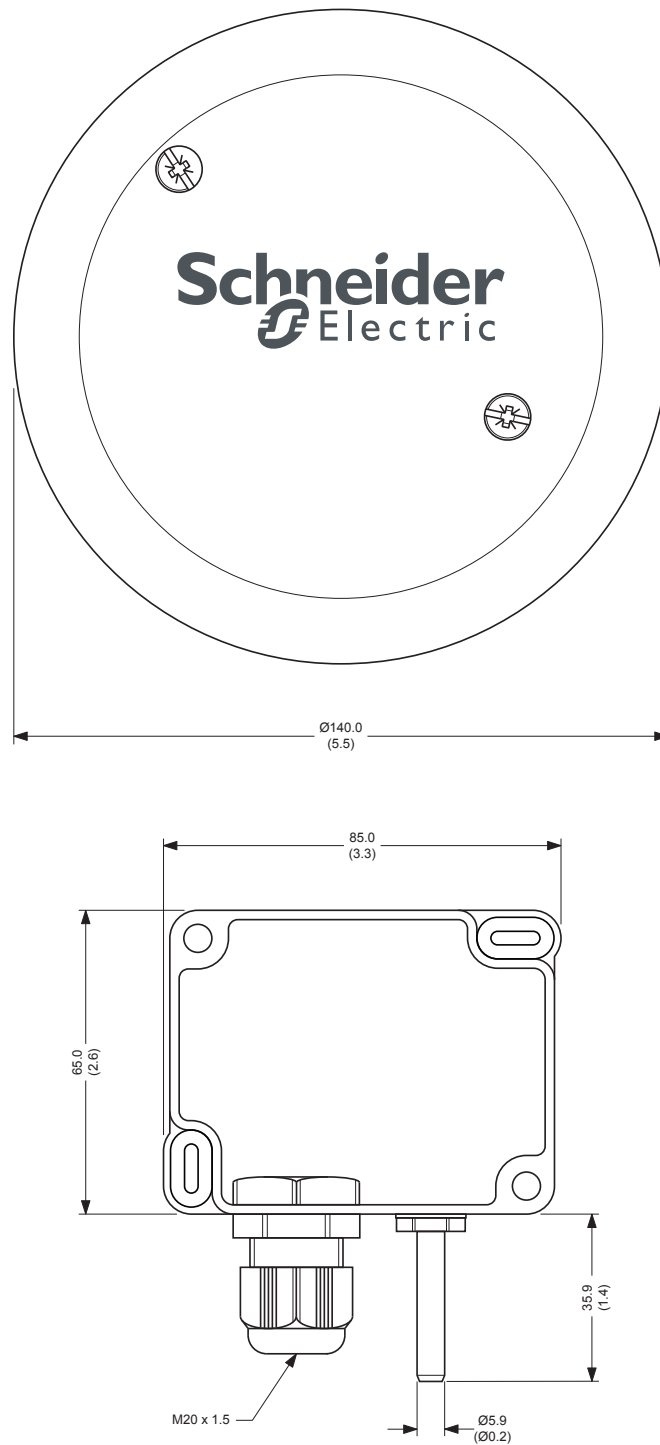
Measurement ranges (selectable)	0 ... +50 °C (+32 ... +122 °F) -50 ... +50 °C (-58 ... +122 °F) 0 ... +100 °C (+32 ... +212 °F)
Signal output (selectable)	4 ... 20 mA 0 ... 10 V
Time constant	Approximately 2 minutes
Materials	Sensor probe: stainless steel Enclosure: PP / PC
Protection standard	IP65
Accuracy	±0.4% of range at 25 °C (77 °F)
Power supply	24 Vac ±10% (voltage output) 16 ... 32 Vdc (voltage/current output)
Power consumption	<4 mA at 32 Vdc (internal)
Maximum load (ohm)	R+ (UM - 9) / 0.02 A
Electrical connection	Screw terminals Cable gland type M20 x 1.5 complete with cable strain relief
Load resistance	0 ... 10 V: min. 20k Ohm 4 ... 20 mA: max. 450 Ohm at 24 Vdc
Ambient temperature (amplifier)	Min: -10 °C (+14 °F) Max: +60 °C (+140 °F)
Test/admissions	Electromagnetic compatibility: CE conformity according to EN 61326: 2013 EU conformity: EMC Directive 2014/30/EU

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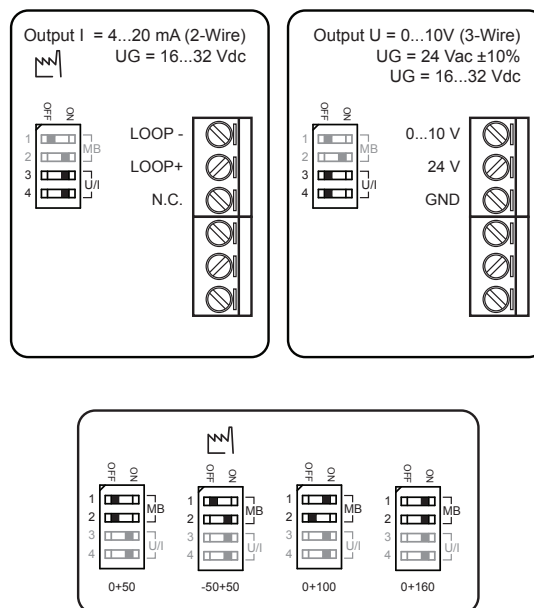
Dimensions mm (in.)



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4...20 mA

Diagram showing the wiring for the 4...20 mA signal input. The input terminals are labeled LOOP -, LOOP +, and N.C. The LOOP - terminal is connected to the negative terminal of a 24 Vdc source. The LOOP + terminal is connected to the positive terminal of a 24 Vdc source. The N.C. terminal is connected to ground. A 24 Vdc source is shown connected to the input terminals.

0...10 V

Diagram showing the wiring for the 0...10 V signal input. The input terminals are labeled 0...10 V, 24 V, and GND. The 0...10 V terminal is connected to the positive terminal of a 24 Vdc source. The 24 V terminal is connected to the positive terminal of a 24 Vdc source. The GND terminal is connected to the negative terminal of a 24 Vdc source. A 24 Vdc source is shown connected to the input terminals.

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