# **STD300**



### **PART NUMBERS**

Part Number	Description	Range	NL	Weight
006920130	STD300-300 -50/50	-50 °C to 50 °C (-58 °F to 122 °F)	313 (12.32)	125g (0.76)
006920121	STD300-300 0/100	0 °C to 100 °C (32 °F to 212 °F)	313 (12.32)	125g (0.76)

#### SPECIFICATIONS

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Rangesee table
Signal output 4-20 mA
Enclosure rating
Dimensions see figure and table
Voltage across transmitter U <sub>G</sub> max. 36 V DC
U <sub>g</sub> min. 15 V DC
Maximum load (ohm) $R = (U_M - 9)/0.02A$
Accuracy ±0.4 % of range
at ambient temp. 25 °C (77 °F) and $U_{\rm G}$ = 24 V DC
Temperature dependence ±0.04 °C/°C
at ambient temp. 25 °C (77 °F) and $U_{\rm G}$ = 24 V DC
Voltage dependence 0.1 °C (0.18 °F)
when $U_{G} = 15$ to 36 V DC
Load dependence 0.1 °C (0.18 °F)
when $R = 0$ to max. $R$
Ambient temp. (amplifier) min20 °C (-4 °F)
max. +70 °C (158 °F)
Time constants
Air velocity 1.5 m/s approx. 72 s
Air velocity 3.0 m/s approx. 52 s
Materials
Immersion tube stainless steel
Connection boxpolyamid plastic
Mounting flange black plastic
Standards

EMC..... EN 50081-1, EN 50082-1

## **Duct Temperature Transmitter**

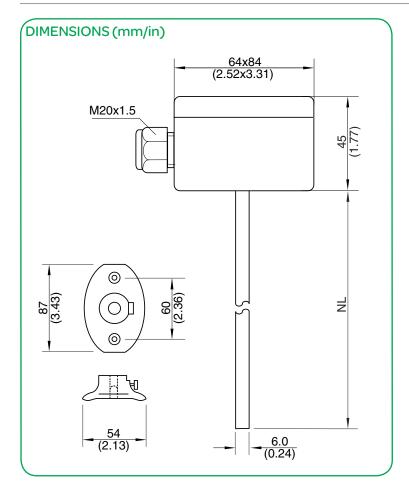
STD300 is an electronic temperature transmitter that converts the temperature measured into an electric current signal 4–20 mA.

Two different temperature ranges are available. The transmitter is delivered as a complete unit, comprising a stainless steel immersion probe, the sensing element and an amplifier, mounted in a housing. The transmitter is intended for immersion installation and is used for temperature measurement in air ducts.

A plastic duct mounting bracket is supplied, with a securing screw.

The reading of the measured signal is done over an external load resistance  $\mathbf{R}_{\rm l}$ .





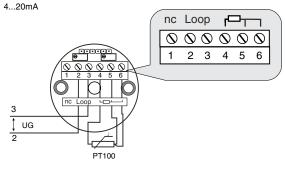
## WIRING & ADJUSTMENT

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 the 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,
- SPAN to adjust the upper end of the range, 20 mA.

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



UG=15...36 V DC