STD290

Average Duct Temperature Sensor NTC 10 $k\Omega$ for I/Net



PART NUMBER

Part Number	Model Number	Weight g (lb)
5123060020	STD290	190 (0.42)

TECHNICAL DATA

Part number	see table
Sensor element	NTC, 10 k Ω at +25 °C (77 °F)
Time constant	approx. 120 s
	at air speed 1 m/s (3.3 ft/s)
	approx. 80 s

at air speed 3 m/s (9.8 ft/s)

Materials

Connection box polyamide plastic
Enclosure rating
Dimensionssee figure
Accuracy see table
Temperatures
Ambient min40 °C (-40 °F)
max. 130 °C (266 °F)
Operating
max. 150 °C (302 °F)

Standards

EMCEN 50081-1, EN 50082-1

The STD290 is a mean value temperature sensor containing four thermistors. It is used for temperature measurement in air ducts and is intended for mounting on a grid or on to wires suspended across a duct. The STD290 is delivered as a complete unit, comprising a junction box (with amplifier) and four thermistors at 1 meter (3.3 ft) intervals along a cable. The distance from the junction box to the first thermistor is 2 meters (6.6 ft). The STD290 housing is equipped with a 20 mm (0.79 in.) cable fitting.

ACCURACY

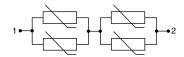
At Temperature	Accuracy
−25 °C/−13 °F	±0.5 °C/±0.9 °F
±0 °C/32 °F	±0.2 °C/±0.4 °F
25 °C/77 °F	±0.2 °C/±0.4 °F
50 °C/122 °F	±0.2 °C/±0.4 °F
70 °C/158 °F	±0.2 °C/±0.4 °F
100 °C/212 °F	±0.5 °C/±0.9 °F



MOUNTING

Pass cable through hole in duct and fasten thermistors at appropriate points on the wire or grid.

WIRING



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