

Model 753 room air temperature sensor

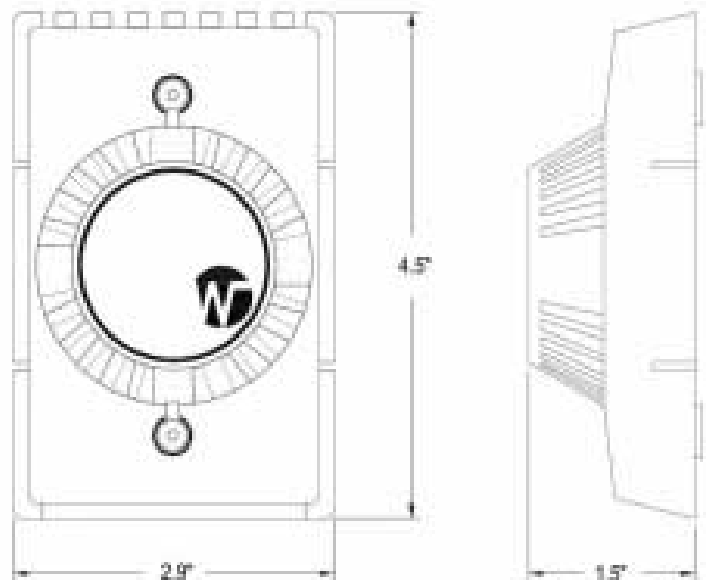


Overview

Attractively styled wall mounted housing designed for even air flow around the sensor for optimal time response.

Unique housing design reduces the effects of self-heating created by the transmitter circuitry.

Ideal for remote sensing when used in conjunction with optional temperature transmitter



Technical specification

Feature	Description
Element type	Standard platinum, 100 ohms @ 0C (32F), .00385, TCR, with optional Pt1000 and 10K thermistor
Accuracy	Standard DIN-B
Termination housing	Standard galvanized steel utility box, with optional NEMA4 steel box available
Sensor sheath length	Standard 2 to 18 inches
Maximum operating temperature	65°C (150°F)
Sensor lead wire	Three 24 AWG Teflon insulated
Insulation resistance	Greater than 100 Megohms @ 100VDC @ 21C (70F)
Accessory	4500H transmitter (0502-157-0003)

Element Type:	Code	PB	Pt RTD, 100 ohms @ 0°C (32°F), 0.00385055 TCR (DIN B)
		PC	Pt RTD, 1000 ohms @ 0°C, (32°F), 0.00385055 TCR (DIN B)
		TM	Thermistor, 10,000 ohms @ 25°C (77°F)
Max. Operating Temperature:			150°F
Sensor Lead Wire:		RTD	Three 24 AWG Teflon insulated
		Thermistor	Two 20 AWG polyolefin insulated
Insulation Resistance:			Minimum 100 megohms @ 100 VDC @ (21°C) 70°F
Stability:		RTD	Typically, 0.26C (0.47°F) over 5 years
		Thermistor	Typically, 1°C (1.8°F) over 5 years
Accuracy:		RTD	± 0.3°C @ 0°C (± 0.56 °F @ 32°F)
		Thermistor	± 0.2°C, from 0°C to 78°C (± 0.36 °F, from 32 °F to 158°F)
		With Transmitter	Add 0.08% of span (RTD only)
Transmitter Power Supply:			12-40 VDC
Transmitter Output:			4 to 20 mA
Load Resistance:			$R_{max} = (V_{supply} - 12V) / 20mA$

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