

DESCRIPTION

The Precon ST-FZR* Series Averaging Sensor provides precision remote temperature sensing for building automation systems and mechanical equipment room instrumentation. The active sensing elements are constructed of highly stable precision thermistor materials or platinum RTDs.

The sensing elements are sealed in a 304 stainless steel probe attached to a standard handy box with mounting bracket attached.

FEATURES

- · Lifetime warranty
- ±0.36°F (±0.2°C) accuracy
- Wide selection of thermistor curves
- Four lengths to fit to most duct sizes
- Easy to mount to duct wall
- · Four sensing elements in a series-parallel arrangement
- Rigid sensor

OPTIONS

- · Weather resistant handy box
- 25' lead length

CDECIFICATIONS





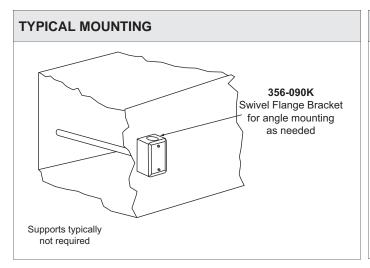
APPLICATION

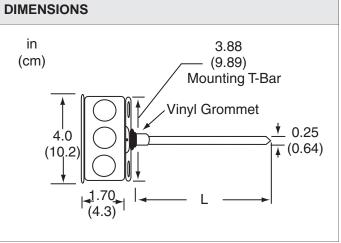
The ST-FZR* Series is designed for direct mounting to sheet metal for average duct temperature sensing. The sensors contain four sensing elements. The thermistors are configured in a series/parallel method, which creates an end result of total average resistance, equal to the same span as a standard thermistor, with a temperature range of 32° to 160°F (0° to 71°C).

SPECIFICATIONS			
Accuracy Thermistor RTD	±0.36°F (0.2°C) ±0.54°F (0.3°C) 375 curve,	Temperature response	Negative temperature coefficient
	±0.27°F (±0.15°C) 385 curve ±0.54°F (0.03°C) 385 curve	Stability	0.24°F (0.13°C) over five years
Sensor types Thermistor @ 77°F	2.252 kΩ, 3 kΩ, 10 kΩ, 20 kΩ,	Heat dissipation	2.7 mW/°C (power needed to raise the temperature by 1°C)
	2.232 Ksz , 3 Ksz, 10 Ksz, 20 Ksz, 100 k Ω	Connections	8' (2.4m) of 24 AWG, pigtails prestripped
Temperature range Thermistor RTD	10° to 230°F (-12° to 110°C) -67° to 240°F (-55° to 115°C)	Mounting	Directly to duct with black box
		Warranty	Lifetime

TEMPERATURE RIGID AVERAGING THERMISTOR AND RTD SENSOR ST-FZR* SERIES







ORDERING INFORMATION

MOI	DEL	DESCRIPTION		
ST-F	FZR3	10,000Ω averaging thermistor @ 77°F (25°C), Type III (gray leads)		
ST-F	FZR21	2252Ω averaging thermistor @ 77°F (25°C), Type II (green leads)		
ST-F	FZR22	3000Ω averaging thermistor @ 77°F (25°C), Type II (blue leads)		
ST-F	FZR24	10,000Ω averaging thermistor @ 77°F (25°C) Type II (yellow leads)		
ST-F	FZR27	100,000Ω averaging thermistor @ 77°F (25°C), Type II (gray leads)		
ST-F	FZR42	20,000Ω averaging thermistor @ 77°F (25°C), Type IV (green leads)		
ST-F	FZR81	(), ()		
ST-F	FZR85	1000Ω Room RTD @ 32°F (0°C), 385 platinum curve (blue leads)		
ST-F	FZR91	1000Ω Room RTD @ 32°F (0°C), 375 platinum curve (green leads)		
		INSERTION LENGTH		
		12 in	12" length (30.48 cm)	
		18 in	18" length (45.72 cm)	
		24 in	24" length (60.96 cm)	
		36 in 36" length (91.44 cm)		
			X¼ Nylon insulated Quick Disconnect ¼"	
			X25 25' (7.6m) lead length 24 AWG twin lead	
			XNB ½" MNPT brass close nipple	
			XW Weather resistant housing	
ST-F	ZR3	12	Example: ST-FZR3-12 in 10,000Ω Type III averaging thermistor sensor with 12" (7.62m) probe and four sensing elements	

RELATED PRODUCTS

UR Moisture resistant three-wire butt splice

356-090 Swivel flange bracket

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