



TEMPERATURE

PLATINUM CURVE RIGID AVERAGING SENSORS

ST-AV81R, ST-AV85R, ST-AV91R

DESCRIPTION

The Minco Continuous-resistance element **ST-AV*R Platinum Curve Rigid Averaging Sensors** provide accurate sensing of duct temperatures when a small, inaccessible area must be covered. They average temperatures over their entire length and terminate in a weather-resistant housing. They are available in 12", 18", 24", and 36" (30.5, 45.7, 61, and 91.4 cm) lengths. The sensor uses an element that closely matches platinum resistance/temperature characteristics over the specified range. It is available in 100Ω and 1000Ω 385 curve and 1000Ω 375 curve. The sensors have a brass case that is rigid for easy single-point mounting.

MINCO



ST-AV91R-18

356-090K

FEATURES

- **Continuous averaging**
- **Rigid sensor**
- **12", 18", 24", 36" (30.5, 45.7, 61, and 91.4 cm) lengths**
- **100Ω and 1000Ω 385 curve**
- **Weather-resistant box**

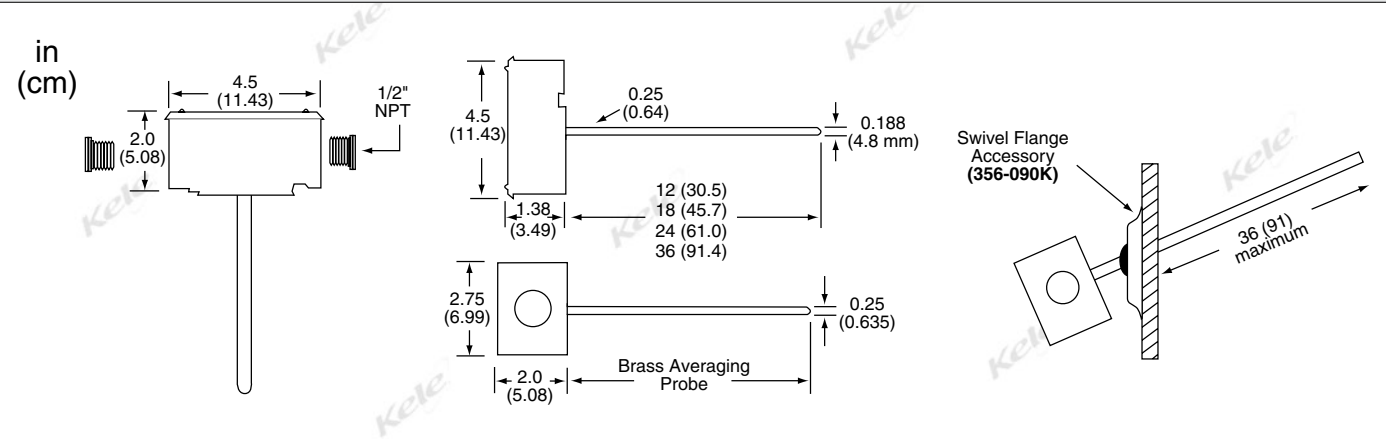
APPLICATION

- **Small ducts without access**
- **Mixed air chambers**
- **Hot/Cold deck discharge**
- **Face/Bypass discharge**
- **Unit vents**

SPECIFICATIONS

Accuracy	±0.27°F (±0.15°C)	Materials of Construction	
Sensor Type		Element Casing	0.188" (4.8 mm) Brass
Type 81	100Ω Pt 385 Curve	Enclosure Rating	NEMA 4, Metal, weather-resistant
Type 85	1000Ω Pt 385 Curve	Dimensions	Element diameter 0.188" (4.8 mm)
Type 91	1000Ω Pt 375 Curve	Wiring Terminations	22 AWG Teflon insulated, white/red
Temperature Range	-50° to 275°F (-45° to 135°C)	Weight	
Sensor Length	12" (30.5 cm), 18" (45.7 cm), 24" (61 cm), 36" (91.4 cm)	12"	1.2 lb (0.54 Kg)
Sensitivity		18"	1.4 lb (0.63 Kg)
Type 81	0.21Ω/°F @ 32°F (0°C)	24"	1.8 lb (0.82 Kg)
Type 85, 91	2.1Ω/°F @ 32°F (0°C)	36"	2.1 lb (0.95 Kg)
		Warranty	3 years

DIMENSIONS



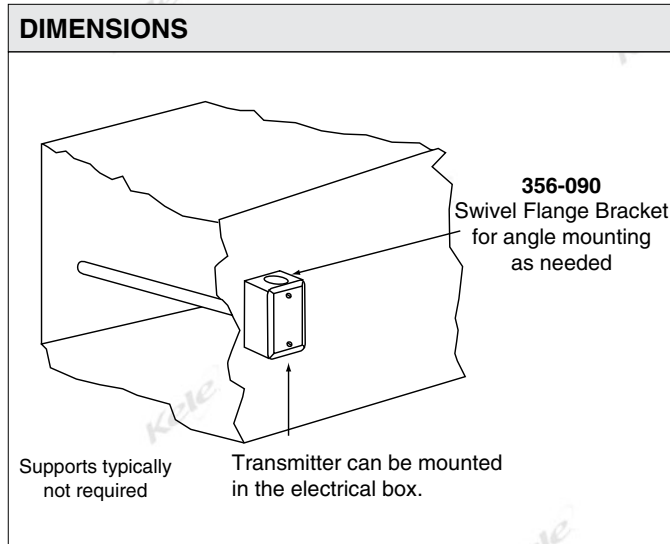
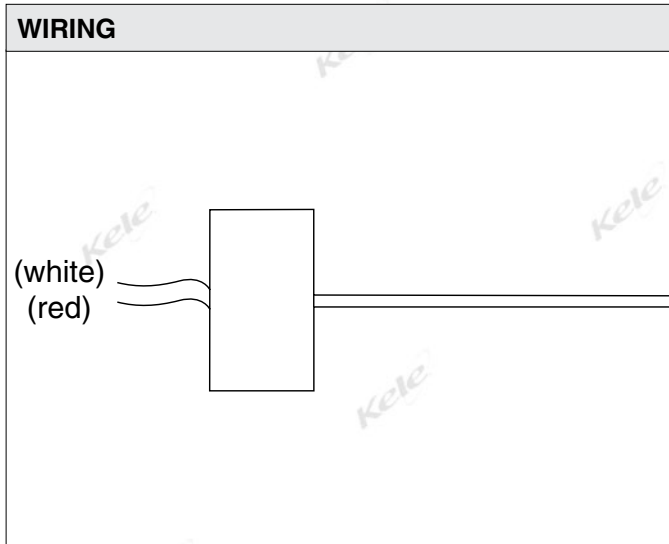
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ORDERING INFORMATION

MODEL	DESCRIPTION
ST-AV81R	100Ω 385 rigid averaging duct probe
ST-AV85R	1000Ω 385 rigid averaging duct probe
ST-AV91R	1000Ω 375 rigid averaging duct probe
INSERTION LENGTH	
12	12" length
18	18" length
24	24" length
36	36" length
WIRING OPTIONS	
XZ	3 wire (ST-AV81R only)

RELATED PRODUCTS

356-090K	Swivel flange bracket kit
T81PNR Series	Temperature transmitter for type 81, 385 platinum curve sensors, cover mounted
T81U Series	Temperature transmitter for type 81, 385 platinum curve sensor, track mounted
T85PNR Series	Temperature transmitter for type 85, 385 platinum curve sensors, cover mounted
T85U Series	Temperature transmitter for type 85, 385 platinum curve sensor, track mounted
T90PNR Series	Temperature transmitter for type 91, 375 platinum curve sensors, cover mounted
T91U Series	Temperature transmitter for type 91, 375 platinum curve sensor, track mounted