



# Duct Averaging Temp Sensors

## Model TE-705



- Two probe construction options— 3/8” (9mm) bendable thin wall aluminum probe or multiple sensor modules interconnected with plenum rated cable.
- TE-705-A incorporates rugged aluminum sensor strain reliefs, four fast response environmentally sealed sensor modules and plenum rated cable for reliable performance and low cost installation.
- Available with plastic, galvanized steel or NEMA-4 / IP-65 steel enclosure to cover all applications.
- More than 12 types of interchangeable NTC thermistors, precision platinum, nickel or balco RTD’s are available for universal compatibility.

TE-705-A incorporates four even spaced sensor modules over 6, 12 or 24 ft / 1.8, 3.6 or 7.2 meter lengths. The modules are interconnected with plenum rated cable strain relieved across the sensor with a patented aluminum bracket. The sensor modules are environmentally sealed and corrosion free plastic, galvanized steel or NEMA-4/IP-65 steel enclosures are available. TE-705-A provides a cost effective and reliable solution for measuring average supply air temperature in large ducts or plenums. TE-705-B bendable aluminum probe averaging temperature sensor also has four evenly spaced sensors and galvanized steel or NEMA-4 / IP\_65 enclosure. TE-705-B is an ideal product for high air flow systems.

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## SPECIFICATIONS:

Platinum RTD sensors:	+/- 0.1% @ 0 C, Alpha : 385 per DIN 43760
Nickel RTD sensors:	+/- 0.5 F @ 70 F / 21.1 C, 6000 PPM/K T.C.R.
Balco RTD sensors:	+/- 0.5 F @ 70 F /21.1 C, 4300 PPM/K T.C.R.
Thermistor sensors:	+/- 0.2 C interchangeability @ 77 F/ 0 C
Probe Material:	1/4" / 6.3mm O.D, 0.020" / 0.5mm wall 304 Stainless Steel
Flange Material:	304 Stainless Steel
Bulkhead Fitting:	Brass with poly compression sleeve
Plastic Enclosure:	Polycarbonate 30% glass filled, rated UL 94V-5-0
Steel NEMA-1 / IP-30:	18 Ga. Galvanized Steel
Steel NEMA-4 / IP-65:	18 Ga. Cold Rolled Steel, Powder coated

## ORDERING INFORMATION: TE-705

Installation	Sensor*	Probe Length	Probe Type
<b>A</b> Polycarb plastic Enclosure <sup>1</sup>	<b>1</b> 100 ohm Platinum RTD	<b>A</b> 6 feet/1.8 m	<b>1</b> Bendable 3/8" Aluminum
<b>B</b> Galvanized steel Enclosure NEMA-1 / IP-30	<b>3</b> 1000 ohm Platinum RTD	<b>B</b> 12 feet/3.6 m	<b>2</b> Multiple sensors, plenum cable
<b>C</b> Painted Steel Enclosure NEMA-4 / IP-65	<b>4</b> 1000 ohm Nickel RTD	<b>C</b> 24 feet/7.2 m	
	<b>5</b> 1000 ohm Balco RTD		
<b>C</b>	<b>7</b> 10,000 ohm thermistor	<b>C</b>	
	<b>10</b> 3,000 ohm thermistor		
<b>C</b>	<b>12</b> 10,000 ohm thermistor	<b>C</b>	
	<b>13</b> 5,000 ohm thermistor		
<b>C</b>	<b>15</b> 100,000 ohm thermistor	<b>C</b>	
	<b>17</b> 20,000 ohm thermistor		
<b>C</b>	<b>18</b> 2,252 ohm thermistor	<b>C</b>	
	<b>21</b> 1,800 ohm thermistor		

<sup>1</sup> Available with the multiple sensor, plenum cable style only.

**Example: TE-705-B-10-B-2:** Duct averaging sensor, 12 feet flexible plenum cable multiple sensor probe, 3000 ohm thermistor, NEMA-1 enclosure.

\* For sensor compatibility, please refer to TI.700-10.

\*\* For a complete Resistance vs. Temperature tables, please refer to TI.700-11.

