

# TEMPERATURE

## MAMAC SYSTEMS DUCT THERMISTOR AND RTD SENSORS TE701/702 SERIES



### DESCRIPTION

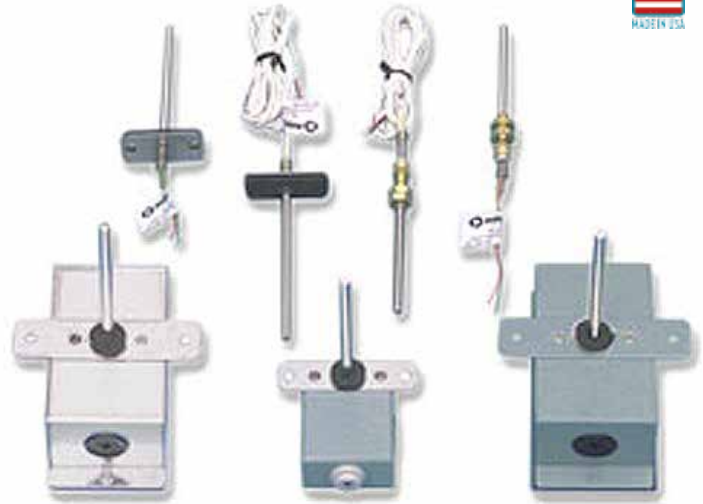
The **Mamac Systems Model TE701/702 Duct Temperature Sensors** provides precision remote temperature sensing for building automation systems and mechanical equipment room instrumentation. The **Mamac TE701A/B** is a flanged mount duct temperature sensor. The **Mamac TE701C/D** is a bulkhead mount duct temperature sensor. The **Mamac TE702A** is a polycard enclosure duct temperature sensor. The **Mamac TE702B** is a galvanized steel enclosure duct temperature sensor. The **Mamac TE702C** is a painted steel enclosure duct temperature sensor.

### FEATURES

- *Wide selection of thermistor and RTD curves*
- *Tip sensitive for precise temperature response*

NEW!

**MAMAC**



TE-701-702



SPECIFICATIONS	
<b>Accuracy</b>	
<b>Thermistor</b>	±0.36°F (0.2°C)
<b>RTD</b>	
<b>1KΩ Nickel, 1KΩ Balco</b>	±0.5°F (0.28°C)
<b>100Ω, 1KΩ Pt 385</b>	±0.27°F (0.15°C)
<b>Sensor Type</b>	
<b>Thermistor</b>	2.252 kΩ, 3 kΩ, 10 kΩ Type II, III, 20 kΩ, 100 kΩ
<b>RTD</b>	1kΩ Nickel 100Ω Pt 385 Curve 1kΩ Pt 385 Curve
<b>Temperature Range</b>	
<b>Thermistor/RTD</b>	-40° to 210°F (-40° to 100°C)
<b>Temperature Coefficient</b>	
<b>Thermistor</b>	Negative temperature coefficient
<b>RTD</b>	Positive temperature coefficient
<b>Enclosure Rating</b>	Depends on the model
<b>Mounting</b>	Directly to duct, wall, or single gang box
<b>Wiring Terminations</b>	6' (1.8m) pigtails
<b>Weight</b>	depends on model
<b>Approvals</b>	CE, RoHs
<b>Warranty</b>	5 years

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### ORDERING INFORMATION

MODEL	DESCRIPTION
TE701	Duct temperature sensor
	<b>MOUNT</b>
<b>A</b>	Flange mount 6 inch wire leads
<b>B</b>	Flange mount 6 foot plenum cable
<b>C</b>	Bulkhead mount 6 inch wire leads
<b>D</b>	Bulkhead mount 6 foot plenum cable
	<b>SENSOR TYPE (WIRE COLOR)</b>
<b>1</b>	100 ohm RTD type 385 (yellow/yellow)
<b>3</b>	1,000 ohm RTD type 385 (red/red)
<b>4</b>	1,000 ohm RTD type Nickel (violet/violet)
<b>5</b>	1,000 ohm RTD type Balco (brown/brown)
<b>7</b>	10,000 ohm thermistor type III (green/green)
<b>10</b>	3,000 ohm thermistor (black/black)
<b>12</b>	10,000 ohm thermistor type II (green/red)
<b>15</b>	100,000 ohm thermistor (orange/black)
<b>17</b>	20,000 ohm thermistor (green/blue)
<b>18</b>	2,252 ohm thermistor (red/yellow)
	<b>PROBE LENGTH</b>
<b>A</b>	4 inch probe
<b>B</b>	6 inch probe
<b>C</b>	8 inch probe
<b>D</b>	12 inch probe

**TE701** **A** **17** **B** *Example: TE701A17B* Duct temperature sensor flange mount, 3 inch wire leads, 20,000 ohm thermistor with 6 inch probe

MODEL	DESCRIPTION
TE702	Duct temperature sensor
	<b>ENCLOSURE</b>
<b>A</b>	Polycarb plastic enclosure
<b>B</b>	Galvanized steel enclosure NEMA 1
<b>C</b>	Painted steel enclosure NEMA 4
	<b>SENSOR TYPE (WIRE COLOR)</b>
<b>1</b>	100 ohm RTD type 385 (yellow/yellow)
<b>3</b>	1,000 ohm RTD type 385 (red/red)
<b>4</b>	1,000 ohm RTD type Nickel (violet/violet)
<b>5</b>	1,000 ohm RTD type Balco (brown/brown)
<b>7</b>	10,000 ohm thermistor type III (green/green)
<b>10</b>	3,000 ohm thermistor (black/black)
<b>12</b>	10,000 ohm thermistor type II (green/red)
<b>15</b>	100,000 ohm thermistor (orange/black)
<b>17</b>	20,000 ohm thermistor (green/blue)
<b>18</b>	2,252 ohm thermistor (red/yellow)
	<b>PROBE LENGTH</b>
<b>A</b>	4 inch probe
<b>B</b>	6 inch probe
<b>C</b>	8 inch probe
<b>D</b>	12 inch probe

**TE702** **A** **17** **B** *Example: TE702A17B* Duct temperature sensor polycarb plastic enclosure, 20,000 ohm thermistor with 6 inch probe