

# TEMPERATURE

## MAMAC SYSTEMS IMMERSION THERMISTOR AND RTD SENSORS TE703/704 SERIES



### DESCRIPTION

The Mamac Systems Model TE703/704 Immersion and Surface temperature Sensors provides precision remote temperature sensing for building automation systems and mechanical equipment room instrumentation. The Mamac TE703A is a thermowell mount immersion temperature sensor. The Mamac TE703B is a polycard enclosure immersion temperature sensor. The TE703C is a galvanized steel enclosure immersion temperature sensor. The Mamac TE703D is a painted steel enclosure immersion temperature sensor. The Mamac TE704A is a strap on probe temperature sensor. The Mamac TE704B is a polycard enclosure surface temperature sensor. The Mamac TE704C is a galvanized steel enclosure surface temperature sensor. The Mamac TE704D is a painted steel enclosure surface temperature sensor.

### FEATURES

- Wide selection of thermistor and RTD curves
- Waterproof stainless steel probe

NEW!

**MAMAC**



TE-703-704



### SPECIFICATIONS

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



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### ORDERING INFORMATION

MODEL	DESCRIPTION
TE703	Immersion temperature sensor
<b>ENCLOSURE</b>	
A	With adapter
B	Polycarb plastic enclosure
C	Galvanized steel enclosure NEMA 1
D	Painted steel enclosure NEMA 4
<b>SENSOR TYPE (WIRE COLOR)</b>	
1	100 ohm RTD type 385 (yellow/yellow)
3	1,000 ohm RTD type 385 (red/red)
4	1,000 ohm RTD type Nickel (violet/violet)
5	1,000 ohm RTD type Balco (brown/brown)
7	10,000 ohm thermistor type III (green/green)
10	3,000 ohm thermistor (black/black)
12	10,000 ohm thermistor type II (green/red)
15	100,000 ohm thermistor (orange/black)
17	20,000 ohm thermistor (green/blue)
18	2,252 ohm thermistor (red/yellow)
<b>PROBE LENGTH</b>	
A	4 inch probe
B	6 inch probe
C	8 inch probe
D	12 inch probe
<b>NPT</b>	
1	1/8 inch NPT
2	1/4 inch NPT
3	1/2 inch NPT

TE703 A 17 B 3 **Example: TE703A17B3** Immersion temperature sensor with 1/2 inch adapter, 20,000 ohm thermistor with 6 inch probe

MODEL	DESCRIPTION
TE704	Strap-on temperature sensor
<b>ENCLOSURE</b>	
A	Surface mount strap-on
B	Polycarb plastic enclosure
C	Galvanized steel enclosure NEMA 1
D	Painted steel enclosure NEMA 4
<b>SENSOR TYPE (WIRE COLOR)</b>	
1	100 ohm RTD type 385 (yellow/yellow)
3	1,000 ohm RTD type 385 (red/red)
4	1,000 ohm RTD type Nickel (violet/violet)
5	1,000 ohm RTD type Balco (brown/brown)
7	10,000 ohm thermistor type III (green/green)
10	3,000 ohm thermistor (black/black)
12	10,000 ohm thermistor type II (green/red)
15	100,000 ohm thermistor (orange/black)
17	20,000 ohm thermistor (green/blue)
18	2,252 ohm thermistor (red/yellow)

TE704 A 17 **Example: TE704A17** Strap-on temperature sensor surface mount strap-on, 20,000 ohm thermistor