



MCS-T100-AVG-20 Description & Specifications



Part # **MCS-T100-AVG-20**

Specifications

Temperature Sensor

- Standard Temperature Range +32°F to +158°F
(0°C to +70°C)
- Standard Temperature Accuracy...±0.36° F (±0.2°C)
- Extended Temperature Range..... -40°F to +248° F
(-40°C to 120°C)
- Extended Temperature Accuracy±1.5°F (±0.8°C)
- Resistance Range 2 Meg to 286 ohms
- Response Time (32 to 212°F)..... 22 sec (in liquid)
- Response Time (212 to 32°F)..... 30 sec (in liquid)
- Input Voltage..... 5vdc
- Sensor Resistance 100,000 ohms @ 77°F (25°C)

Sensor Housing Specifications:

- Dimensions 0.187"OD x 1.5"L
- Material..... 304 Stainless Steel
- Environmental rating..... Waterproof to IP68
- Testing 10,000 freeze/thaw thermal cycles

Cable:

- Wire 2 conductor 22 awg stranded
- Length..... 20'
- Shield..... Foil shield with 25% overlap
- Drain..... Stranded tinned copper drain

Mounting Enclosure

- Dimensions 4.7" x 4.7" x 3.5"
- Nema Rating..... 4, 4x, 12, 13
- IP Rating..... IP66
- Material Acrylonitrile Butadiene Styrene
- Color Grey
- Flammability Rating UL94HB

Description

The **MCS-T100-AVG-20** comprised of four MCS-T100-20s in addition to a Nema 4X mounting enclosure used to read the average temperature. The Nema 4X is a durable, weatherproof, enclosure which is suited to be mounted inside or outside.

By mounting four MCS-T100-20 temperature sensors in different locations in the duct the MCS-T100-AVG-20 provides an average duct temperature. The MCS-T100-AVG-20 uses stock MCS-T100-20 sensors. Therefore, if a sensor goes bad, a replacement MCS-T100-20 sensor is the only requirement, minimizing maintenance costs. The MCS-T100-AVG-20 also has simple and easy wire instructions (see Wiring diagram right).

For a cross reference table between °F /°C, ohms and vdc at a sensor input pin (S1) of a MCS micro controller, please see the MCS-T100 specification sheet.

