



mTS012

STAINLESS STEEL TEMPERATURE SENSOR



- 1/4" (6.3mm) stainless steel tube sealed at one end
- 4" (10cm) model mTS012-4 and 6" (15cm) model mTS012-6 standard
- 6'6" (2m) of durable UL 2517 TPE cable with UV protection
- Intrinsically Safe when used with the mBC083 Bus Converter
- Each sensor has a unique permanent digital address
- RJ11 modular jack for easy connection to CMC Field Interconnect Box (FIB)
- No calibration required

The mTS012 is a solid state, digital single-wire temperature sensor in a sealed stainless steel tube for use in harsh environments. The sensor is available in 4" and 6" standard lengths. The mTS012 sensor's recommended operating range is -40°F to +225°F (-40°C to +107°C) and it is rated as Intrinsically Safe when used with the mBC083 Bus Converter.

The temperature sensor uses a single-wire data communications bus. Up to 32 sensors can be

connected in parallel to a single Bus Converter. The sensor bus has a fully specified cabling system complete with terminal assemblies and uses low cost CAT5/6 cabling and punch down blocks for easy termination. Each sensor has a unique serial number identifying it to the Bus Converter. No sensor calibration is required.

Typical applications include temperature sensing on bearings, motors and other general industrial equipment applications.



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SPECIFICATIONS	DESCRIPTION	CHARACTERISTIC
IS SENSOR BUS	Voltage	5 VDC
	Current	1.5 mA maximum
	Communications	Single-Wire Bus
ENVIRONMENT	Recommended Operating Range	-40°F to +225°F (-40°C to +107°C)
	Absolute Maximum Range	-65°F to +255°F (-54°C to +124°C)
	Relative Humidity	0 to 100% sensor end
DIMENSIONS	Length	4" (10cm) and 6" (15cm) standard
	Sensor tube diameter	0.25" (6.3mm)
	Cable length	6'6" (2m)

Additional lengths available to order: 8" (20cm), 10" (25cm), 12" (30cm), 14" (35cm), 16" (40cm), 18" (45cm), 20" (50cm), 22" (55cm), 24" (60cm) and 30" (76cm)