

SPECIFICATION @ 68°F

INPUT	
Sensor	3 Wire Pt-100 (Pt-500 or Pt-1000 to order)
Linearization	BS EN 60751 BS 1904 (DIN 43760) (0.00385) JISC 1604 (0.003916)
Excitation current	1 mA maximum
Sensor range	-328°F to +1562°F
Minimum span	40°F
Lead resistance	
Maximum Effect	10 ohms per leg 0.02% Full Range Output/ohm (plus lead resistance mismatch)
Burnout	Red LED indicates when temperature range is exceeded
Sample rate	500 mS per sample
Accuracy	±0.2°F ±0.1% rdg -150°F to +950°F ±0.4°F ±0.2% rdg -320°F to +1550°F
Thermal drift	
Zero Span	±0.01°F/°F 50ppm
Warm up time	2 minutes to full accuracy
Protection	Reverse Polarity Protected
Indication	Red LED indicates programming operations and out of range sensor
Programming switch	Momentary Push Button

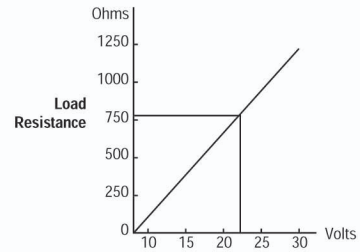
APPROVALS

EMC	Emissions BS EN 50081-1
	Susceptibility BS EN 50082-2

ORDER CODE

MTI 203P	For Pt-100 (Upscale Burnout) *1
MTI 203P-500	For Pt-500
MTI 203P-1000	For Pt-1000
MTI 203N	120 Ω Ni
CONFIG203	*2 (default range 32-212°F)
RMK-1	Din Rail Adapter

Notes: *1 Downscale Burnout. Contact Sales Office
*2 Special configuration. Contact Sales Office

OUTPUT	
Output range	4-20 mA 2 wire loop powered (Can be ranged 20-4mA) Maximum 3.8 to 22mA
Supply voltage	8 to 30 VDC
Voltage effect	0.4µA/Volt
Accuracy	±5µA
Burnout	Up-Scale 22mA (Downscale to order)
Thermal drift	Zero Span ±0.12µA/°F ±0.28µA/°F
Response time	500mS to reach 70% of Value
Loop resistance	Max. 800R at 24VDC
	
Loop noise	±0.1µA p-p
Ripple rejection	±0.002µA/Volt (measured @ 50 Hz 1 volt p-p)

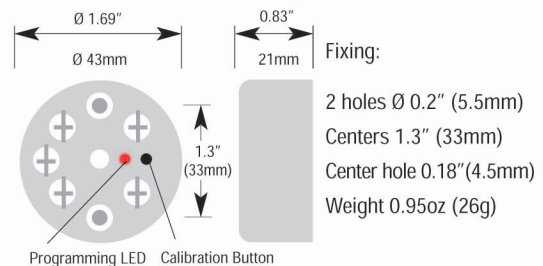
ENVIRONMENTAL

Ambient operating range	30°F to 160°F
Ambient storage temperature	-40°F to 160°F
Ambient humidity range	0 to 95% (non condensing)

ENCLOSURE

Material	ABS
Flammability	UL 94V040

MECHANICAL DETAILS



Every effort has been taken to ensure the accuracy of this specification, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.