Product Features

- *Programmable input : T/C, RTD, mV, mA*
- *2 or 3-wire Pt100 input with linearized output*
- *2-wire loop powered 4-20 mA / 20-4 mA output*
- *Cold junction compensation for thermocouples*
- *Configuration with a PC via TxConfig interface*

Description

MP200i series comes factory calibrated but is a fully customer re-programmable temperature transmitter. In-the-field configuration of input type and working range can be achieved by means of a cable and an RS232 port from a PC.

Table 1 – MP200i series input sensor

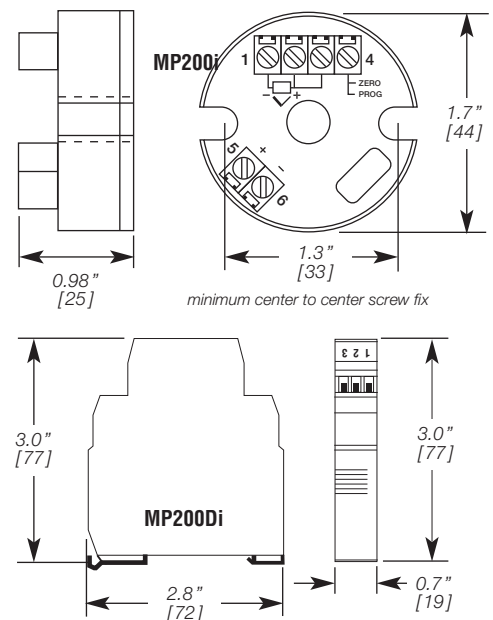| Sensor Type (Code)		Range		Min. SPAN
T/C K	(K)	-150 to 1370 °C	(-238 to 2500 °F)	100 °C
T/C J	(J)	-100 to 760 °C	(-148 to 1400 °F)	100 °C
T/C R	(R)	-50 to 1760 °C	(-58 to 3200 °F)	400 °C
T/C S	(S)	-50 to 1760 °C	(-58 to 3200 °F)	400 °C
T/C T	(T)	-160 to 400 °C	(-256 to 752 °F)	100 °C
T/C N	(N)	-270 to 1300 °C	(-454 to 2372 °F)	100 °C
T/C E	(E)	-90 to 720 °C	(-130 to 1328 °F)	100 °C
T/C B	(B)	500 to 1820 °C	(932 to 3308 °F)	400 °C
Pt100	(P)	-200 to 600 °C	(-328 to 1112 °F)	40 °C
Voltage	(AV)	0 to 50 mV		5 mV
Voltage	(BV)	*0 to 10 V (MP200Di only)		1 V
Current	(AC)	0 to 20 mA (MP200Di only)		2 mA
Current	(BC)	4 to 20 mA (MP200Di only)		2 mA

Specifications

Sensor Input :	User defined. The supported sensors are listed in Table 1, along with their max. ranges.
Thermocouples :	Types J, K, R, S, T, N, E, B according to IEC 60584 (ITS-90). Impedance >> 1MΩ
Pt100 :	Excitation : 180 uA. 2 or 3-wire connection (for 2-wire sensors, tie terminals 2 and 3 together). $\alpha = 0.00385$, according to IEC 60751 (ITS-90).
Current :	0 to 20 mA, 4 to 20 mA. Impedance 15.0 Ω (+ 1.9 VDC).
Voltage :	0 to 50 mVdc. Impedance >> 1M * Note: 0-10 VDC input type requires an internal jumper switching.
Total accuracy :	Better than 0.3% of the maximum range for thermocouples and 0.2% for Pt100 and voltage
Response Time :	< 500 ms
Output :	2-wire 4-20 mA or 20-4 mA, linear with respect to the measured temperature.
Isolation:	1000 VAC for 1 minute between sensor input and the 4-20 mA loop.
Resolution :	0.001mA (14 bits).
Temperature effect :	0.003 % of maximum SPAN/°C
Power supply :	12 to 35 VDC, across the transmitter
Maximum load (RL) :	RL (max.)= $(V_{supply} – 12)/0,02$ [Ω]
Operating Temperature :	-40 °C.....80 °C (-40 °F....176 °F)
Housing Material :	ABS UL94-HB.
Housing Dimensions :	MP200i : 44 mm (dia.) x 25 mm (height). MP200Di : 72 mm (H) x 78 mm (D) x 19 mm (W)

MP200i

MP200Di

Dimensions

MP200i

1.7" [44]

1.3" [33]

0.98" [25]

minimum center to center screw fix

3.0" [77]

MP200Di

2.8" [72]

3.0" [77]

0.7" [19]

Custom Builder

Model	Input Code	Range
MP200i	P, AV, BV K, J, R, AC, BC, S, T, N, E, B	(___ / ___)
MP200Di	P, AV, BV, K, J, R, AC, BC, S, T, N, E, B	(___ / ___)

Ex.:   **MP200i - P - (0/100 °C)**

- *Information furnished by Intempco is believed to be accurate and reliable. However, no responsability is assumed by Intempco for its use.*
- *Specifications subject to change without notice.*