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# **Product Features**

- Programmable input : T/C, RTD, mV
- 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**

MP200 series comes factory calibrated but is also 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 – MP200	series	input	sensor
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Sensor Type (Code)		Range		Min. SPAN
T/C K	(K)	0 to 1370 °C	(32 to 2500 °F)	100°C
T/C J	(J)	0 to 760 °C	(32 to 1400°F)	100°C
T/C R	(R)	0 to 1760 °C	(32 to 3200 °F)	400 °C
T/C S	(\$)	0 to 1760 °C	(32 to 3200 °F)	400 °C
T/C T	(T)	0 to 400 °C	(32 to 752 °F)	100°C
T/C N	(N)	0 to 1300 °C	(32 to 2372 °F)	100°C
T/C E	(E)	0 to 720 °C	(32 to 1328°F)	100°C
Pt100	(P)	0 to 650 °C	(-32 to 1020°F)	40 °C
Voltage	(AV)	0 to 50 mV		5mV



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, according to IEC 60584 (ITS-90). Impedance >> $1M\Omega$
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).
Voltage :	0 to 50 mVDC. Impedance >> 1M
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 4-20mA, linear with respect to the measured temperature.
Resolution :	0,001mA (14 bits).
Power supply :	12 to 35VDC, across the transmitter
Maximum load (RL) :	RL (max.)= (V <sub>supply</sub> -12)/0.02 [Ω]
Electromagnetic compatibility :	EN 50081-2, EN 50082-2
Operating Temperature :	-40°C80°C (-40 °F176°F)
Housing Material :	ABS UL94-HB.
Housing Dimensions :	MP200 : 44mm (diameter) x 25mm (height). MP200D : 72mm (H) x 78mm (D) x 19mm (W)

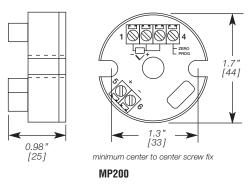
#### **Cold Junction Compensation for Thermocouples**

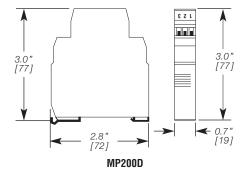
• Information furnished by Intempco is believed to be accurate and reliable. However, no responsability is assumed by Intempco for its use.

• Specifications subject to change without notice.



### Dimensions





# **Custom Builder**

Model	Input Code	Range
MP200	P, AV, K, J, R, S, T, N, E	( / )
MP200D	P, AV, K, J, R, S, T, N, E	()

Ex.: MP200 - P - (0/100 °C)