

### Select a RM-8INS when...

...you need to read thermocouples, or you need isolated 16 bit inputs for high accuracy, or to connect to floating 4-20 mA inputs.

- Advanced 16 bit A/D for extreme accuracy
- Differential inputs minimize noise and ground loops
- Software selectable ranges – mix inputs on module
- Linearizes and compensates thermocouple readings
- Upscale/downscale thermocouple burnout detection

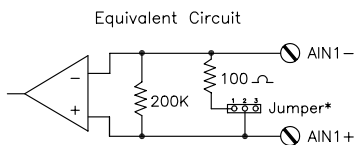
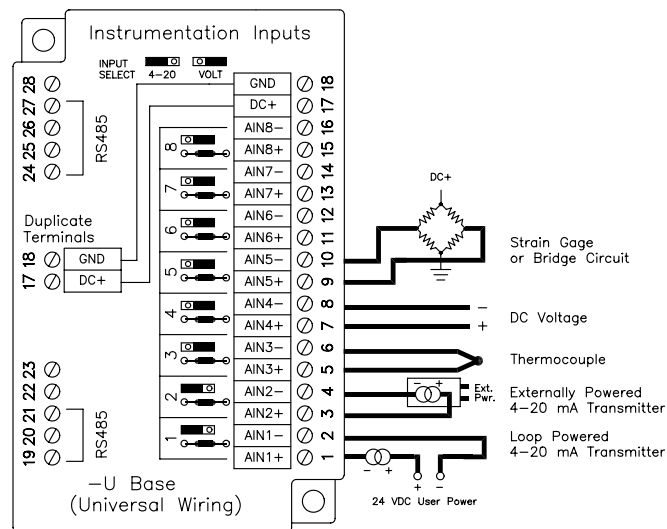


### Performance Specifications

Number of channels	8
Lowest voltage range	+/- 0.062 Volts
Maximum voltage range	+/- 10 Volts
Auto-polarity current range	4-20 mA
Thermocouple types (see notes)	J,K,E,R,T,B,C,N,S
A/D resolution	16 bits
Full scale accuracy (@20°C)	+/- 0.02%
Input span and offset adjustability	+/- 25%
Span and offset temp. coefficient	+/- 30 ppm per °C typ.
mV and voltage input impedance	200K Ohms
CMRR (at 50/60 Hz)	140 db
DMRR (at 50/60 Hz)	66 db
Common mode input voltage:	
Between two input terminals	+/- 25 VDC
Between inputs and ground	1200 Volts
No damage input voltage	+/- 50 VDC
Fastest scan rate (all 8 channels)	100 mS

RS485 communication information	See page 19
RS485 isolation	1200 Volts RMS 1 minute
Required supply voltage	10-30 VDC (1.5 watt typical)
Operating temperature range	-30 to 70° C
Storage temperature range	-40 to 85° C
Humidity (non-condensing)	5 to 95%

**Note:** Thermocouple inputs are cold junction compensated and reported as °F, °C, 0.1°F or 0.1°C.



\* Jumper 1 to 2 for 4-20 mA Range

Connect Up to 8 4-20 mA, Voltage or Thermocouple Inputs

### Ordering Information

Description	Part Number
Instrumentation module with base	RM-8INS-U
Replacement module only	RM-8INS-M