

PAD-TH8-P**8 channel thermocouple and RTD module**

- **Input channels:** 8 differential input channels
 Thermocouple: requires PAD-CB8-x breakout box
 RTD: requires PDA-CB8-RTD breakout box
- **A/D conversion:** 8 internal 24 bit A/D converters
- **Bandwidth:** 6 Hz
- **Isolation:** 350 V_{DC}
- **Signal connection:** 25-pin SUB-D socket

**Module specifications (for revision 6.00 or higher)**

PAD-TH8-P	
Input channels	8 differential input channels
Input voltage	±1.5 V
Input resistance	1.4 MΩ
Gain linearity	0.001%
Bandwidth	6 Hz
Resolution	1 μV (24-bit)
Max. gain drift	25 ppm /°C
Max. offset drift	25 ppm of range /°C
Typical noise	2 μV
DC accuracy	Better ±0.05 % ±200 μV (typ. ±0.03 % F.S. ±20 μV)
Sampling rate	Max. 12 Hz per channel
Readout speed	Typ. 80 ch/sec.*
Isolation voltage	350 V _{DC} (channel to chassis ground) 100 V _{DC} (channel to channel)
Overvoltage protection	15 V _{DC}
NMR (50/60 Hz)	120 dB
CMRR (50/60 Hz)	130 dB
RS-485 interface	Yes
Interface speed	9600 bps (2400 to 115200)
Power supply voltage	±9 V _{DC} (±10 %)
Power consumption	Typical 0.6 W

*) Depending on system and number of channels