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Data Sheet

August 15, 2026

DEWETRON

Dewetron PAD-TH8-P 8-Channel Thermocouple and RTD Rear Plug-In Module

Dewetron Data Acquisition Systems (DAQ). Channels: ** 8 isolated thermocouple and RTD channels, Current: ** 390 μ A.



MODEL

Dewetron PAD-TH8-P

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PAD-TH8-P

LISTING

<https://aumictechlabs.com/products/pad-th8-p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Dewetron PAD-TH8-P is an 8-channel rear plug-in module for simultaneous thermocouple and RTD temperature measurement in industrial, automotive, and aerospace test environments. It delivers isolated channels with cold junction compensation on thermocouple inputs and configurable RTD excitation, integrating directly into Dewetron data acquisition systems via RS-485 or CAN protocols. The module supports eight thermocouple types and three RTD standards, making it suitable for multi-sensor thermal monitoring across diverse temperature ranges and sensor configurations. Technical Specifications Channels: 8 isolated thermocouple and RTD channels Thermocouple Types: J, K, T, E, R, S, B, N RTD Standards: PT100, PT500, PT1000 (3-wire and 4-wire configurations) Thermocouple Input Range: ± 150 mV Cold Junction Compensation: Per-channel RTD Excitation Current: 390 μ A Bandwidth (-3 dB): 48 Hz Maximum Sampling Rate: 200 S/s per channel (CAN); 10 S/s per channel (RS-485) Data Readout Speed: Up

to 80 ch/sec @ 9600 bps (RS-485); up to 50 ch/sec (system dependent) Key Features Full channel isolation prevents crosstalk and ground-loop interference Per-channel cold junction compensation for thermocouple accuracy Programmable RS-485 communication: 2400–115200 bps (standard 9600 bps, 8 data bits, 1 stop bit, no parity) CAN 2.0B interface support with configurable protocol Flexible RTD configuration supporting both 3-wire and 4-wire measurement topologies Rear plug-in architecture for direct integration with Dewetron base units Typical Applications Thermal monitoring in engine testing, materials characterization, environmental chambers, battery thermal profiling, and multi-point temperature acquisition in production validation and failure analysis workflows. Compatibility & Integration Designed as a plug-in module for Dewetron data acquisition platforms. Communicates via RS-485 (baudrate programmable) or CAN 2.0B, allowing flexible system configuration and remote module addressing.

PADTH8P Characteristics / Specifications

PARAMETER	VALUE
Model	PAD-TH8-P
Instrument Type	8-channel thermocouple and RTD input module
Family	DEWETRON PAD / EPAD static measurement modules
Input Channels	8 differential
Input Voltage	plus or minus 1.5 V
Input Resistance	1.4 MOhm
Adc	8 internal 24-bit converters
Resolution	1 uV (24-bit)
Bandwidth	6 Hz
Gain Linearity	0.001 percent
Gain Drift	25 ppm/C maximum
Offset Drift	25 ppm of range/C maximum
Noise	2 uV typical
Dc Accuracy	better than plus or minus 0.05 percent plus or minus 200 uV (typical plus or minus 0.03 percent FS plus or minus 20 uV)
Sample Rate	12 Hz maximum per channel
Readout Speed	typically 80 channels/s
Isolation Chassis	350 VDC channel to chassis ground
Isolation Channel	100 VDC channel to channel
Overvoltage	15 VDC
Nmr	120 dB at 50/60 Hz
Cmrr	130 dB at 50/60 Hz
Interface	RS-485
Interface Speed	9600 bps default (2400 to 115200)
Supply Voltage	plus or minus 9 VDC plus or minus 10 percent
Power	0.6 W typical

PARAMETER	VALUE
Signal Connector	25-pin SUB-D
Tc Breakout	PAD-CB8-x
Rtd Breakout	PAD-CB8-RTD
Manufacturer	DEWETRON
Literature	DEWETRON PAD-TH8-P module specifications, revision 6.00 or higher

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications: 8 differential inputs, plus or minus 1.5 V, 1.4 MOhm input resistance, 0.001 percent gain linearity, 6 Hz bandwidth, 1 uV resolution (24-bit), max gain drift 25 ppm/C, max offset drift 25 ppm of range/C, typical noise 2 uV, DC accuracy better than plus or minus 0.05 percent plus or minus 200 uV (typical plus or minus 0.03 percent FS plus or minus 20 uV), max 12 Hz per channel, typical readout 80 ch/s, isolation 350 VDC channel-to-chassis and 100 VDC channel-to-channel, 15 VDC overvoltage, NMR 120 dB and CMRR 130 dB at 50/60 Hz, RS-485 at 9600 bps (2400 to 115200), plus or minus 9 VDC plus or minus 10 percent, typical 0.6 W, 25-pin SUB-D. Thermocouple uses PAD-CB8-x breakout; RTD uses PAD-CB8-RTD.

Applications
Multi-channel thermocouple and RTD logging on DEWE static/PAD front-ends for thermal and process tests.

Key Features
Eight isolated 24-bit thermocouple/RTD channels Plus or minus 1.5 V, 1 uV resolution, 6 Hz bandwidth 350 VDC channel-to-chassis isolation RS-485 PAD bus, 12 Hz per channel PAD-CB8 thermocouple or RTD breakout

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Notes
From DEWETRON PAD-TH8-P specification table (rev 6.00+). EPAD2/CPAD2-TH8 10 S/s and 1500 V CPAD3 rows are later CAN/RS-485 bricks, not this PAD-TH8-P.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.