MEASURpoint™

Ultra-Accurate...Multipurpose

Measures RTD, Thermocouples, and Voltages from 300µV to 400V.

Correlation of voltage and temperature measurement for:

- Li-ion cell measurement
- Hybrid Electric Vehicle battery performance
- Fuel cells
- Portable equipment
- Thermal Management for battery/motor systems

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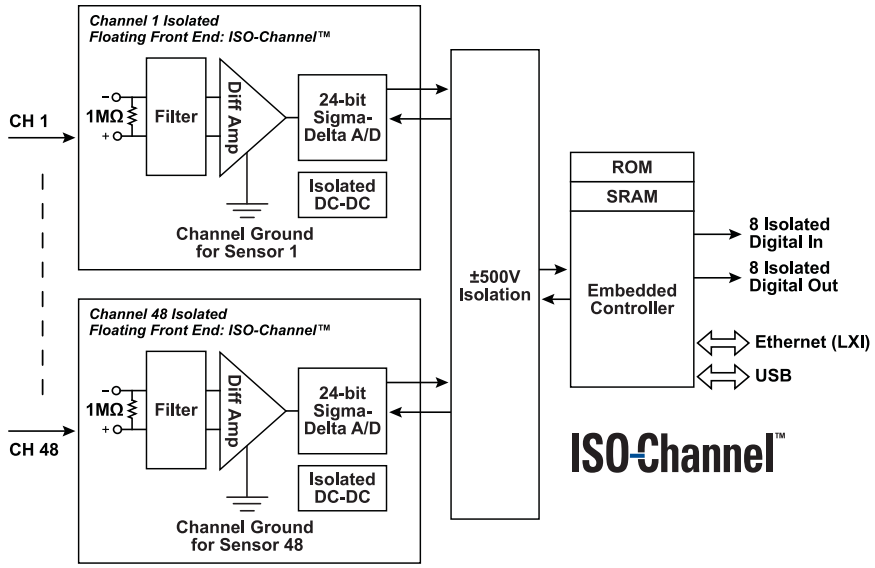
MEASURpoint™

MEASURpoint™ is an ultra-accurate instrument that allows any combination of temperature and voltage to be measured with a single software solution. Up to Forty-eight configurable channels allow the ultimate flexibility with voltage, thermocouple, and RTD inputs.

MEASURpoint incorporates **ISO-Channel™** technology to eliminate any common mode noise and ground loop problem under any environmental conditions. The Measurement Application software is a ready-to-measure program allowing the user to acquire, display and export data. Unique application requirements can be easily accommodated with the Measure Foundry Development package.



MEASURpoint™

- Use any combination of TEMPpoint or VOLTpoint boards.
- Application: Correlation of measurements requiring temperature and voltage

TEMPpoint™

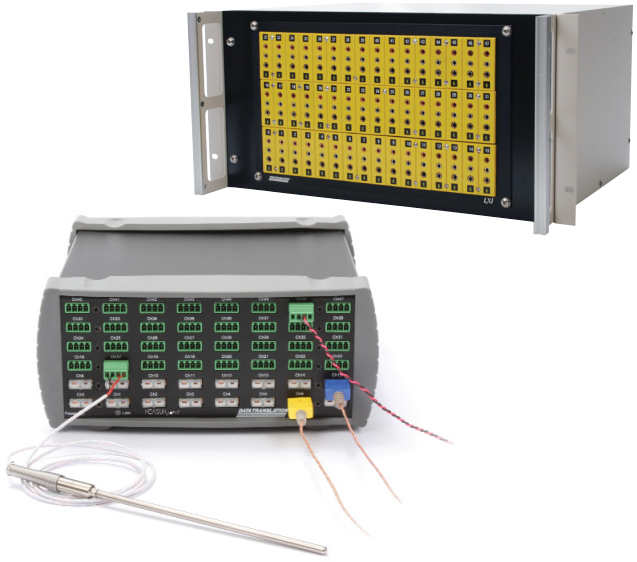
- Ultra-Accurate Temperature Measurement
- Application: Useful for quantity of RTD/Thermocouple inputs

VOLTpoint™

- Precision Voltage Measurement
- Ideal for Li-ion Cell Measurement
- Application: Useful for precision voltage measurement from 300µV to 400V

Key Features:

- Configure up to 48 channels in groups of 8 channels per board.
- USB or Ethernet (LXI Class C compliant).
- **ISO-Channel** technology – provides ultra-accurate, precision measurements – no common mode noise – no ground loop problems.
- 1000V galvanic isolation guaranteed between any input channel to any other input channel.
- ±500V isolation to earth ground.
- 24-bit A/D converter per channel operating in parallel.
- 10Hz throughput rate on each channel simultaneously or 480Hz for 48 channels.
- DC/DC converter per channel – maximum isolation.



Up to 48 measurement channels – mix and match: thermocouple, RTD or voltage in one box – selectable in groups of eight channels.

RTD Board:

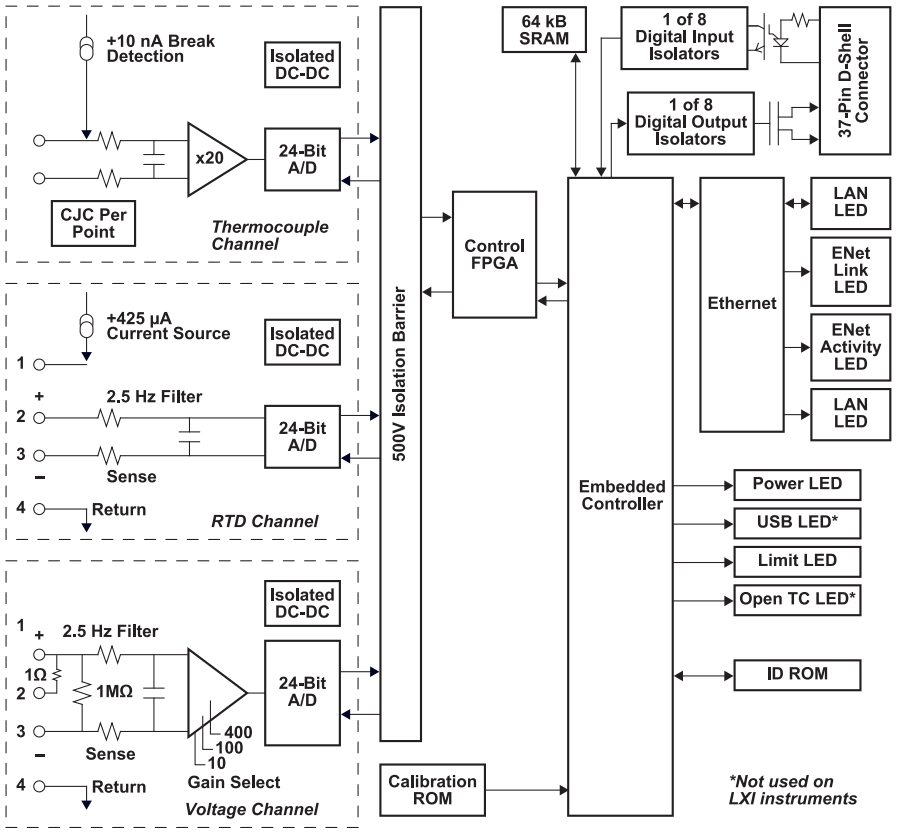
- Precision reference current source for each RTD channel.
- Supports Platinum RTD types: Pt100 (±0.07C accuracy), Pt500 (±0.01C accuracy), Pt1000 (±0.01C accuracy)

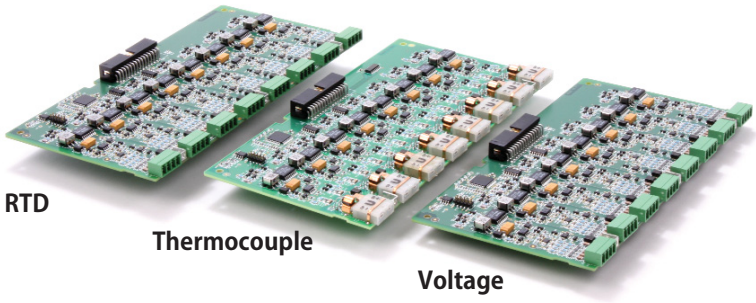
Thermocouple Board:

- Typical 0.0004 ºC resolution
- Up to ±0.15 ºC accuracy including all errors
- B, E, J, K, N, R, S, and T thermocouple types supported
- +10 nA break-detection circuitry to detect open thermocouple inputs
- Dedicated CJC (cold junction compensation) input for each thermocouple channel

Voltage Board:

- 3 software selectable input ranges: ±10V, ±100V, and ±400V on a per channel basis
- Maximum 300µV error for ±10V input range, 2mV error for +/-100V input range, and ±8mV for ±400V input range
- Jumper selectable current loop input, 0-20mA, or can handle higher currents up to 100A with external resistor for motor applications.

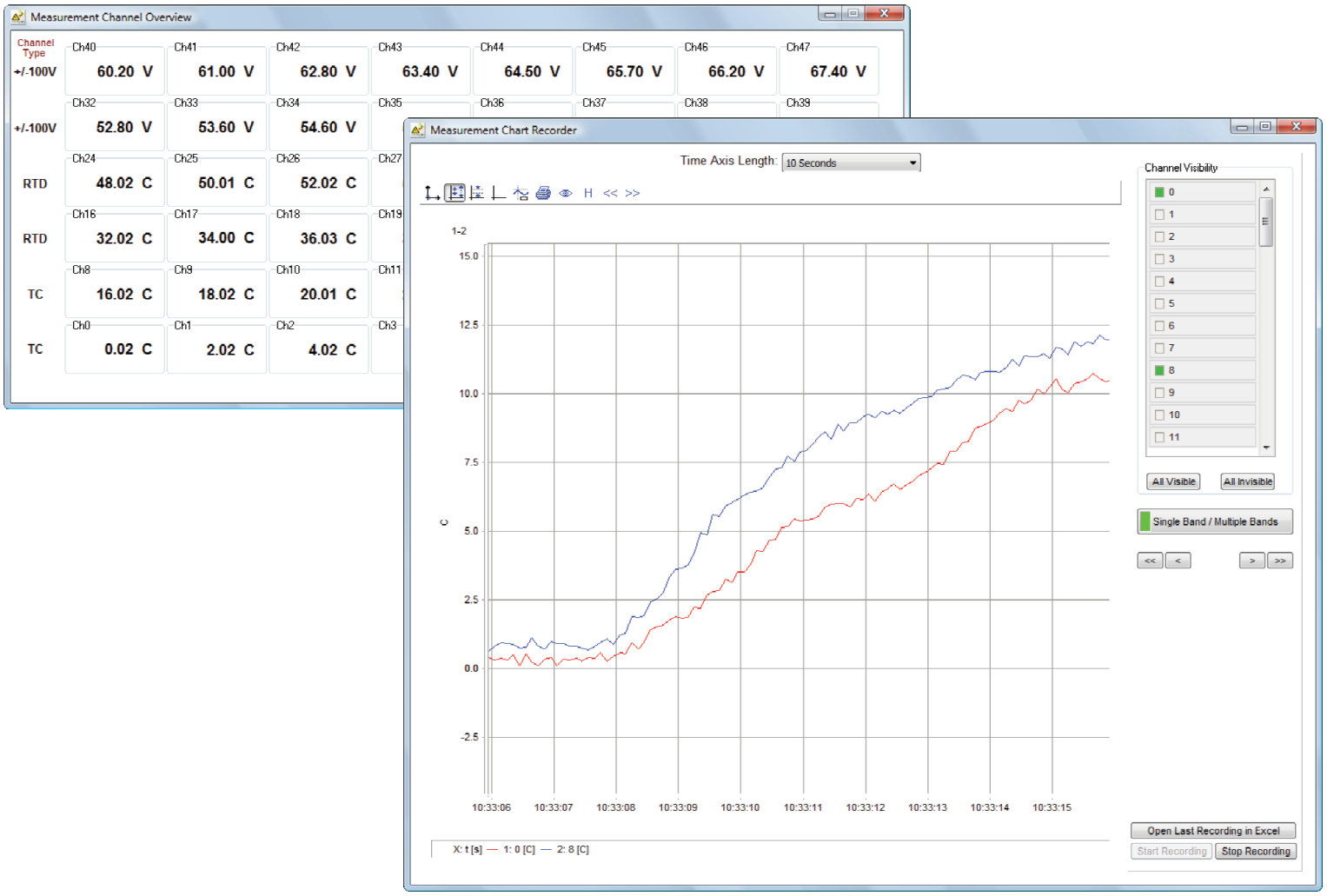




MEASURpoint™

Ready-to-Measure Software Solutions:

Each MEASURpoint instrument includes a Measurement Application, a ready-to-measure program that allows you to be productive immediately – configure and acquire temperature, resistance, and voltage channels, display, log, analyze, and export data to other formats including Excel.



Ordering Summary:

DTX874-XXT-XXR-XXV

T = Thermocouple Channels
R = RTD Channels
V = Voltage Channels

8 = Ethernet (LXI) Instrument
9 = USB Instrument

00 = No Channels
08 = 8 Channels
16 = 16 Channels
24 = 24 Channels
32 = 32 Channels
40 = 40 Channels
48 = 48 channels

Ordering Examples

DT9874-16T-16R-16V
MEASURpoint USB instrument configured with 16 thermocouple channels, 16 RTD channels, and 16 voltage channels.

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US/CANADA 800-525-8528 WWW.DATATRANSLATION.COM
EUROPE/ASIA +49 (0) 7142-9531–0 WWW.DATATRANSLATION.EU