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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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Technical support, services, demo & rental equipment, price information
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EX1000A Series

High-Density Precision Data Acquisition Instruments



EX1000 SERIES - HIGHLIGHTS

- ▶ High-density, compact (1U) precision DAQ
- ▶ Accurate, powerful, and easy to use
- ▶ Flexible channel configuration
- ▶ End-to-end self-calibration
- ▶ Scalable for synchronized high-speed, high channel count measurements
- ▶ Open transducer detection
- ▶ Cold junction compensation
- ▶ Unmatched signal-conditioning flexibility to meet your most demanding needs
- ▶ Fully integrated signal conditioning maximizes performance and accuracy
- ▶ 1500 Vrms isolation and advanced input protection
- ▶ Driverless web-based access for monitoring and control
- ▶ Supports IVI and LabVIEW drivers, and free PowerDAQ software



Overview

The EX1000A Series is a family of high-performance, LXI-based data acquisition instruments designed for functional test, validation, and distributed measurement applications. Featuring integrated signal conditioning, end-to-end self-calibration, and advanced thermocouple measurement technology, the platform delivers exceptional accuracy, repeatability, and long-term measurement integrity in a compact 1U form factor.

Supporting thermocouples, voltage, RTDs, thermistors, strain, pressure, frequency, and position sensors, the EX1000A Series provides flexible per-channel measurement capability for a wide range of test requirements. Its LXI-compliant architecture enables synchronized, distributed measurements and seamless scalability from small systems to thousands of channels. With LAN connectivity, web-based monitoring and control, and turnkey software support, the EX1000A Series simplifies integration while accelerating test system deployment.

Flexible Signal Conditioning for Demanding Applications

The EX10SC modular signal conditioning platform expands measurement capabilities to address the most demanding industrial signal acquisition challenges. This extension of the EX1000 family is designed to ensure seamless integration and connectivity, with exceptional measurement flexibility. Signals from a wide variety of transducer types can be mixed and matched, on a per-channel basis, ensuring complete coverage from a single, high-performance measurement platform.

Isolation and Protection

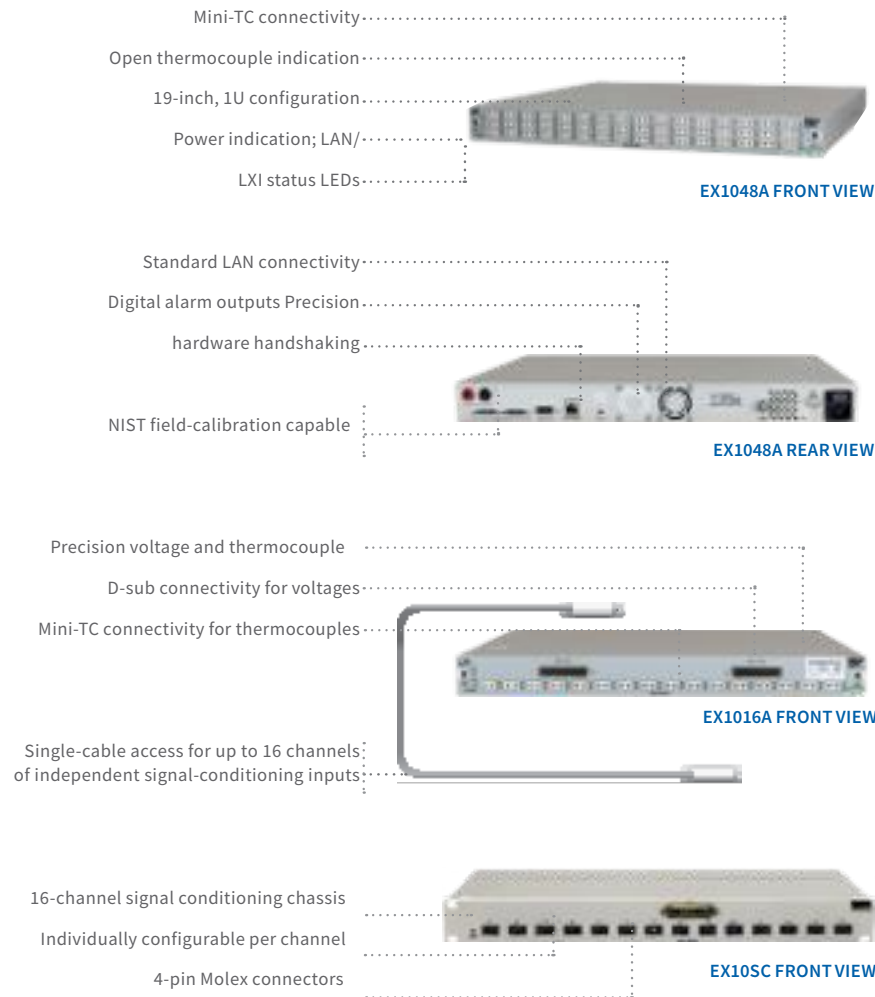
A wide range of signal types are supported. Transducer types can be mixed and matched on an individual channel basis:

- Thermocouple
- Potentiometer
- High-level voltage
- RTD
- Strain gauge
- Frequency
- Thermistor
- Pressure
- Current

Industries and Applications

- ▶ **Aerospace & Defense:** Jet engine testing, airframe structural monitoring
- ▶ **Power & Energy:** Turbine monitoring, green energy systems, and nuclear safety testing.
- ▶ **Automotive:** Engine dyno testing, exhaust analysis, and battery pack thermal management.
- ▶ **Industrial Manufacturing:** Automated test equipment (ATE) and environmental chamber profiling.

Precision, Scalable Measurement Instruments LXI Synchronization Technology



MODEL SELECTION

Model	Thermocouple Channels (0.667 mV max)	Voltage Channels (10 V max)	Input Power	Connector Style	EX10SC Compatible
EX1000A	*	48	AC	D-sub	Yes
EX1000A/TC	48	**	AC	mini-TC	No
EX1000A-TCDC	48	**	DC	mini-TC	No
EX1016A	16	32	AC	mini-TC/D-sub	Yes
EX1032A	32	16	AC	mini-TC/D-sub	Yes
EX1048A	48	0	AC	mini-TC	No

* Thermocouple measurements require external CJC signal. ** All channels capable of thermocouple or 10 V max operation.

RELIABLE DATA FIRST TIME EVERYTIME

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