

Vitrek Offers Metrologists Laboratory-Level Accuracy in a Portable, Battery-Operated DC Calibrator

The XiTRON 2000 Series provides flexibility when calibrating thermocouple, pressure, flow and DC voltage instrumentation; portable DC calibrator's performance rivals costlier devices traditionally used in lab settings

Poway, CA—May 6, 2021—[Vitrek](#), the leader in high-voltage test and measurement equipment, offers the XiTRON 2000 series for metrologists who need superior accuracy and portability when calibrating thermocouple, pressure, flow and DC instrumentation. Delivering laboratory-level accuracy in a battery-powered DC calibrator, the 2000 Series is a cost-effective calibration/simulation tool ideal for applications spanning the consumer, medical, automotive, process control and many other industries.



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The high-performance 2000 Series computes current or voltage output using an equation derived from two data points to simulate the sensor output. Automatic cold junction compensation is included, allowing both measurement and simulation of values in °C or °F for B, E, J, K, N, R, S and T thermocouples. Additionally, current loop (4-20mA) indicators, controllers and recorders can be precisely calibrated with accuracy measured in parts-per-million (ppm) rather than percentages.

Key features of the XiTRON 2000 Series DC calibrator include:

- DC voltage and current capability, +/- 22 volt, 10ppm accuracy, +/- 22mA, 40ppm accuracy
- Temperature simulation with 0.01° resolution, 0.015°- 0.12° accuracy (90 day)
- DC resolution down to 10nV or 10pA
- Temperature measurement with 0.1°-0.2° accuracy (90-day)
- Auto cold junction compensation NiMH battery operation (8 hours typ.)
- Standard RS232 interface allows laptop PC control in the field, while the optional IEEE-488 interface supports ATE applications
- Additional memory can be added to either interface for 10 user-defined test steps
- Temperature control loops
- Thermocouple measurement and simulation

“In the past, metrologists who wanted to check systems around the factory floor had to either buy an expensive calibrator for lab use only or use a portable calibrator that didn’t provide the accuracy they needed,” said Chad Clark, Vitrek’s VP, Sales & Marketing. “Vitrek now offers the ideal solution. The XiTRON 2000 Series is portable and battery-powered – and yet it has the performance of a bench calibrator.”

About Vitrek



Since 1990, [Vitrek](#) has provided innovative global solutions for high voltage test and measurement including electrical safety compliance testers, multi-point high voltage switching systems and graphical power analyzers. Vitrek’s product range also includes the XiTRON line of portable calibrators for thermocouple and millivolt DC calibration, ballast testers, LED illumination spectral analyzers, programmable DC electronic loads, phase-angle voltmeters and digital milliohmmeters. The recent acquisition of DynamicSignals’ portfolio adds a wide array of board-level data acquisition and integrated real-time RF record/playback system solutions from GaGe, KineticSystems and Signatec. Vitrek also supplies precision high voltage measurement standards to national laboratories and calibration labs around the world. This unique, and complementary, combination of product and engineering capabilities positions Vitrek as a leading provider of test solutions serving the photovoltaic, medical equipment, power conversion, electrical component and appliance industries.

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