These versatile and portable calibrators bring laboratory accuracy to process control applications. Current loop (4 – 20 mA) indicators, controllers and recorders can be calibrated with accuracy measured in ppm rather than percentages.

The 2000 Series instruments may compute current or voltage output using an equation derived from two data points. This allows the user to enter a temperature, pressure or flow level and the 2000 will output the appropriate current or voltage signal.

The highly versatile 2000MN adds temperature measurement and automatic cold junction compensation to the impressive list of features. It allows the user to read or source in °C or °F for B, E, J, K, N, R, S and T thermocouples.

Compact and economical, the 2000 Series provides the right combination of accuracy and flexibility for most temperature measurement/simulation applications. These portable, precision instruments address a wide cross-section of calibration requirements.

Temperature measurement may automatically compensated for the cold junction temperature.

Simulates DC output of pressure transducers for calibrating systems.

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**Quality and Reliability**

Vitrek, founded in 1990, is the premier source of precision power testing and measuring equipment for industrial and consumer product development and manufacturing. Vitrek’s sophisticated technology provides companies the edge in design verification and product manufacturability. Vitrek is ISO 17025 Accredited.

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**INDUSTRIES SERVED**

- Consumer Products
- Medical
- Automotive
- Process Control
- Aerospace/Military 4-20mA Loops
- Data Acquisition System Test
- Calibration Labs
- Engine Control Calibration
- Engineering & Test Labs
- Industrial Controllers
- Instrument Maintenance & Repair

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**25 Years Industry EXPERTISE**
Self-Calibration

An automatically sequenced Internal Self-Calibration may be performed at any time. This procedure does not require any external equipment or connections. The accuracy specification assumes the use of this procedure at least every five days, or following an ambient temperature change of greater than 5°C.

An automatically sequenced External Calibration may be performed at any time. In order to prevent unauthorized access, an optional password protection scheme is utilized. A one year external calibration cycle is recommended for normal use, however, this may be reduced (e.g. to three months) if increased accuracies are required, or increased (e.g. to two years) if reduced accuracies are required.

External Calibration may be performed at any ambient temperature between 10°C and 35°C without degradation of the accuracy specifications, the accuracy figures then being valid for ambient temperatures of up to 5°C from this calibration temperature.

Condensed Specifications

(Contact Vitrek for complete specifications)

**PHYSICAL**

SIZE: 4.1” W x 6.3” H x 9.7” D (104mm x 160mm x 246mm) Weight: 4.5 lbs

**ENVIRONMENTAL**

OPERATING: 0°C to 50°C, less than 90% R.H. (typ) at 40°C (non-condensing)

STORAGE: -30°C to 65°C, less than 95% R.H. at 40°C (non-condensing)

**ISOLATION**

Output to Chassis, Ground or Interface: 1500V pk max.

Unit is supplied with one Vitrek T5 universal external power supply, 100-240 Vrms, 50-60Hz, with a 2.5mm 12 VDC output plug and a three-prong IEC320 AC Inlet receptacle, plus a three-prong AC power cord.

**WARRANTY**

Two Years

Please visit [www.vitrek.com](http://www.vitrek.com) for ordering information.