

Model 8025 Micro-800 Datalogger

The Micro-800 Datalogger is designed around the Campbell Scientific, Inc. Model CR-800 Basic Datalogger and Model AVW1 Vibrating Wire Interface (or the Geokon DSP for electrically noisy environments), specifically to read Geokon's line of Vibrating Wire sensors.

The Micro-800 Datalogger is housed in a fiberglass enclosure and manufactured for use in harsh environments. It has low power consumption, wide temperature range, resistance to moisture, and protection against lightning damage. In addition, the standard Micro-800 Datalogger incorporates a Model 8032 Multiplexer for reading either 16 vibrating wire gages and 16 thermistors, or 32 vibrating wire gages.

The 4MB memory used in the CR-800 module allows for storage of approximately 500,000 high resolution data points or 1,000,000 low resolution data points.

Standard communication is established via a direct connection to a PC or laptop using an optically isolated RS-232 interface. Other communication options are available; such as RS-485 Multidrops, Landline or Cellular modems, or 900 MHz/2.4 GHz radios.

Power is provided by a 12 V, 7 Amp Ahr Gel Cell, which is maintained by either an AC powered charger or solar panel.

The datalogger is easily programmed using MultiLogger software.



Specifications

Range	<i>(analog)</i> ±2.5 millivolts to ±5 volts <i>(frequency)</i> DC to 200 kHz
Resolution	<i>(analog)</i> 0.33 microvolts to 1333 microvolts <i>(frequency)</i> ±35 nS/no. cycles measured
Accuracy	<i>(analog)</i> ±0.1% F.S. <i>(frequency)</i> ±0.01% of reading
Excitation Output	±2.5 V at 25 mA (maximum), Frequency Sweep 5 V with AVW1
Temperature Range	-25°C to +50°C (-55°C to +80°C optional)
Battery	12V, 7 Amp Ahr Gel Cell
L × W × H	472 × 431 × 263 mm