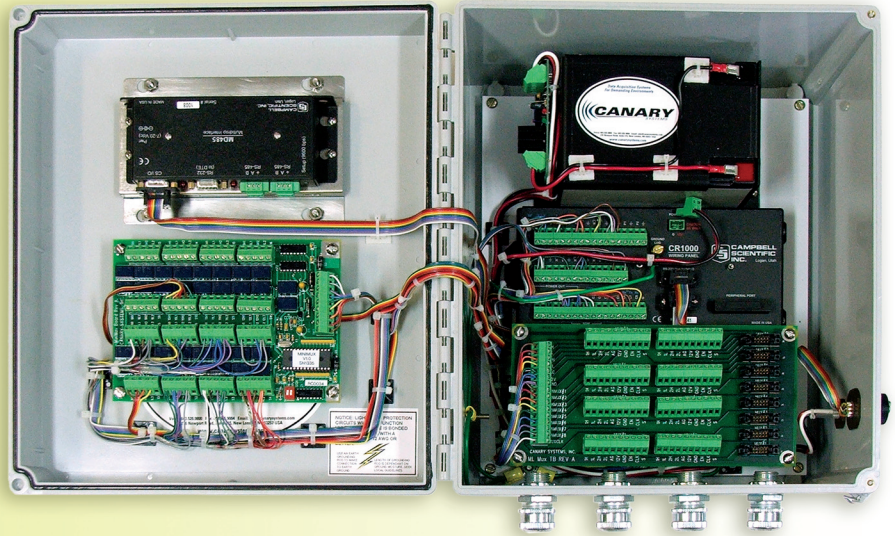


Key Features

- Designed around the field-proven Campbell CR1000 MCU
- Channel configuration and system programming using our MultiLogger software
- Supports all commonly used instrumentation without wiring modifications
- Supports up to 480 channels using our 48-channel MultiMux multiplexers
- Includes wiring panel which supports up to 8 industry standard multiplexers
- Includes peripheral bracket for mounting optional communication peripheral
- Supports all Campbell communication peripherals
- Supports many commercially available communication peripherals
- Power system includes 12 VDC 12 AHR battery, charger and 120-220 VAC AC adaptor
- Very flexible and powerful measurement and control capabilities
- Battery backed clock and data and program memory
- Detachable keypad available
- Includes 3-year warranty



Canary Systems SensorMux Systems are designed to provide a cost-effective, flexible, highly-reliable system for automating measurements from all commonly used instrumentation. Example instrumentation includes 4-20 mA, linear potentiometer, thermocouple, vibrating wire, full-bridge strain gage, thermistor, LVDT, turbidity, conductivity, humidity, including various configurations of each type. High reliability Vibrating Wire measurements are supported using our VWDSP Interface. Channel expansion is through the use of industry standard multiplexers, up to 480 channels may be configured when using Canary Systems MultiMux multiplexers. Our MultiLogger software is used to configure each channel for the type of instrument connected, to expand channel capacity simply add multiplexers. Using our MultiLogger software means that no specialized programming knowledge is required to get the system operational.

The heart of the SensorMux System is the field proven CR1000 Measurement and Control Unit (MCU) manufactured by Campbell Scientific of Logan, Utah, USA. The standard MCU provides 2 megabytes of battery-backed SRAM data and program storage (4 Megabytes is also available), battery-backed real-time clock, 2 serial ports (up to 6 ports through the use of the digital I/O ports),

16 single-ended measurement channels, 2 pulse input channels, 3 excitation channels, 8 digital I/O ports and a peripheral port. Its built-in CRBasic programming provides very flexible and powerful processing and control capabilities.

The 2 serial ports provide support for all Campbell communication peripherals including direct connect RS-232, phone modems, network link adaptors and wireless adaptors. In addition, a wide range of commercially available communication peripherals are also supported including spread spectrum and licensed frequency wireless adaptors, cellular modems, satellite transceivers, fiber optic adaptors and terminal servers.

The SensorMux System is packaged with a 12 AHR battery and charger in a rugged fiberglass-polyester weather resistant enclosure (stainless steel and other packaging options are also available) for years of reliable operation in demanding field environments. Solar panels are also available for applications without line power. See the CR1000 MCU and VWDSP Interface data sheets for complete measurement specifications. Contact Canary Systems for application assistance including SensorMux System configurations.