



S-VIA-CM14 Sensor

12-bit Voltage Input Adapter Sensor

The 12-bit Voltage Input Adapter interfaces with sensors providing 0-5 VDC signals to act as a smart sensor with compatible data loggers. This adapter features both a non-switched input and a battery-saving switched input that extends the life of external batteries. It also provides a trigger signal for controlling power to attached external sensors, while offering digital filtering which improves measurement accuracy with 32 readings/sample.



Supported Measurements:

DC Voltage

Key Advantages:

- 12-bit resolution
- Digital filtering improves measurement accuracy with 32 readings/sample—4-20 mA adapter has 60 Hz noise rejection
- Measurement averaging over logging interval further enhances accuracy
- Plug-in modular connector for easy interface with HOBO® Weather Station or HOBO® Micro Station data loggers
- Screw terminal for connecting to sensors
- Micro Station has room for two adapters and Weather Station has room for ten (adapters mount inside station enclosure)
- Represents one data input channel

S-VIA-CM14 Sensor Specifications

Measurement range: 0-5 V DC

Accuracy: $\pm 10\text{mV}$ $\pm 0.3\%$ of reading (over operating temperature range)

Resolution: ± 1.221 millivolts

Input impedance: 1 Megohms

Sensor trigger open collector: Maximum sink current: 115 mA; 30V maximum

Sensor trigger source: Voltage: 2.5 V $\pm 2.4\%$; maximum current: 1 mA

Trigger Timing

Warm-up time: 10.3 ms $\pm 3\%$ (fixed)

Measurement time: 2.4 ms $\pm 3\%$

Cable length: 14 cm (5.5 inch)

Ground connection: Same for adapters and PC interface