



S-CIA-CM14 Sensor

12-bit 4-20mA Input Adapter Sensor

The 12-bit 4-20 mA Input Adapter interfaces with any sensor providing a 4-20 mA signal to connect to smart sensor 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 and 60 Hz noise rejection.



Supported Measurements:

4-20mA

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-CIA-CM14 Sensor Specifications

Measurement range: 4-20 mA (measures down to 0 mA to detect error condition)

Operating temperature range: -40° to 75°C (-40° to 167°F)

Accuracy: $\pm 40 \mu\text{A} \pm 0.3\%$ of reading (over operating temperature range)

Resolution: $\pm 4.93 \mu\text{A}$

Input impedance: 124 ohms (differential input)

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

Warm-up time: 300 ms $\pm 3\%$ (fixed)

Measurement time: 16.6 ms $\pm 3\%$ to filter out 60 Hz noise

Cable length: 14 cm (5.5 inch)

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

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- ▶ Call 1-508-759-9500
- ▶ In U.S. toll free 1-800-564-4377
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Technical Support (8am to 8pm ET, Monday through Friday)

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