



HOBO® Data Logger

S-CIA-CM14 12-bit 4-20 mA Input Adapter

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.

Features:

- 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

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

Operating Temperature Range: -40° to 75°C

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

Trigger Timing:

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

Order Information:

12-bit 4-20 mA Input Adapter

Part No:

S-CIA-CM14

CE Compliance: Contact Sales Office



Tempcon Instrumentation Ltd.
Unit 19, Ford Lane Business Park, Ford Lane
Ford, Nr. Arundel, West Sussex. BN18 0UZ
Tel: ++44 (0) 1243 558270 Fax: ++44 (0) 1243 558288
Email: info@tempcon.co.uk Web site: www.tempcon.co.uk

DW212
1111