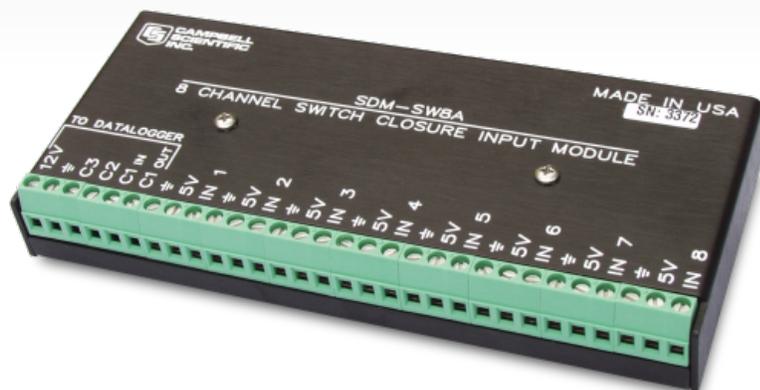




SDM-SW8A

8-Channel Switch Closure Input Module



Expands Data Logger Input Channels

For switch closure or voltage pulse sensors

Overview

Your data logger can measure more switch closures or voltage pulses with an SDM-SW8A. Sensors that output a switch

closure or voltage pulse signal include tipping bucket rain gages, flow meters, and anemometers.

Benefits and Features

- ▶ Well suited for use in energy management studies
- ▶ Provides eight individually configured channels
- ▶ Measures a variety of signals: reed switches, dry contacts, or slow voltage pulses
- ▶ Allows up to four SDM-SW8As to be connected to a single data logger

Detailed Description

The SDM-SW8A provides eight channels for connecting the sensors. Each channel is individually configured for single-pole double-throw (SPDT), single-pole single-throw (SPST), or voltage pulse measurements. Output options include counts, duty cycle, and state.

SDM Operation

The data logger enables individual modules through an addressing scheme; multiple SDMs (in any combination) can be connected to one data logger. We recommend a maximum of four SDM-SW8As be connected to a single data logger. After a module is enabled, it operates independently of the data logger until additional commands are received or results are transmitted.

Specifications

Function	Increases the number of switch closures or voltage pulses a data logger can measure.	Number of Channels	8
		Measurement Types	Switch closure (SPDT, SPST), dc voltage pulse

Input Voltage Threshold	From below 0.9 to above 4.0 Vdc (±20 Vdc maximum)
Maximum Input Frequency	100 Hz (50% duty cycle)
Minimum Input Pulse Width	5 ms high, 5 ms low
Maximum Bounce Time	3 ms open without counting
Output Options	State, duty cycle, counts
Maximum Count/Port	65535
Internal Sampling Frequency	500 Hz
Watchdog Reset	Yes

Operating Temperature	-25° to +55°C
Operating Voltage	9.6 to 16 V
Typical Current Drain	› 6 mA active (maximum) › 3 mA quiescent
Relative Humidity	0 to 90% RH (non-condensing)
Maximum Cable Length	6 m (20 ft) total to all SDM devices Consult Campbell Scientific if longer lengths are necessary.
Dimensions	15.7 x 6.9 x 2.3 cm (6.2 x 2.7 x 0.9 in.)
Weight	0.23 kg (0.5 lb)

For comprehensive details, visit: www.campbellsci.com/sdm-sw8a 



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