



**CAMPBELL
SCIENTIFIC**
WHEN MEASUREMENTS MATTER

Synchronous Devices for Measurement (SDMs)

Expand your output and measurement capabilities



Synchronous Devices for Measurement (SDMs) are addressable peripherals that expand the measurement and control capabilities of dataloggers. Dataloggers typically request, process, and store data from SDMs. In control applications, dataloggers send SDMs updated control signals to react to changing conditions for the application.

SDM-AO4A

4-Channel Analog Output Module



The SDM-AO4A module increases the number of continuous analog outputs available to a datalogger. These outputs are used for proportional control or driving strip charts.

SDM-CAN

Datalogger-to-CANbus Interface Module



The SDM-CAN allows a Campbell Scientific datalogger to sample data directly from a CANbus communication network. This allows testing and verification of CANbus-based data alongside measurements made independently via the datalogger's input channels. The SDM-CAN also supports transmission of data onto a CANbus network.

SDM-CVO4

4-Channel Current and Voltage Output Module



The SDM-CVO4 is attached to a datalogger and outputs variable voltage or current signals under datalogger program control. Typical applications include driving remote current-loop display units, retransmitting measured values to industrial control systems, sending control signals to valve controllers, and providing excitation voltages or currents to external sensors.

SDM-CD16AC

16-Channel AC/DC Relay Controller



The SDM-CD16AC allows a Campbell Scientific datalogger to automatically activate external ac or dc devices such as motors, pumps, heaters, valves, and fans.

SDM-CD16D

16-Channel Digital Control Port Module



The SDM-CD16D increases the number of digital outputs that can be controlled by a Campbell Scientific datalogger. The SDM-CD16D is commonly used to drive normal logic level inputs.

SDM-CD8S

8-Channel Solid-State DC Controller



The SDM-CD8S adds capability to a datalogger by controlling dc devices that have a moderate current load, such as solenoids, solenoid valves, dc motors, stepper motors, lights, horns, heaters, and fans. The SDM-CD8S is targeted for applications requiring only a few control ports and where a larger, high-powered relay module (such as the SDM-CD16S) is not necessary.

SDM-CD16S

16-Channel Solid-State DC Controller

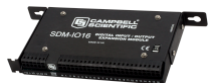


The SDM-CD16S adds capability to a datalogger by controlling DC devices that have a relatively high-powered load, such as solenoids, solenoid valves, DC motors, stepper motors, lights, horns, heaters, and fans.



SDM-IO16

16-Channel Input/
Output Module



The SDM-IO16 expands the digital input and output channel count of Campbell Scientific dataloggers.

SDM-SIO1A

1-Channel Serial I/O
Module



The SDM-SIO1A is a serial I/O expansion module for Campbell Scientific dataloggers. It is designed to add an additional RS-232, RS-422, or RS-485 (half- or full-duplex) serial port to an SDM-capable datalogger for the purposes of interfacing with an intelligent sensor, actuator, or display. Up to 15 SDM-SIO1A modules can be connected to a single datalogger SDM port. The SDM-SIO1A behaves much like a native datalogger serial port and uses the same familiar serial I/O commands. The SDM-SIO1A is transient and surge protected to IEC61000-4-5 level 4 on the serial port interface, avoiding the need for separate transient protection in most applications.

SDM-SIO4A

4-Channel Serial I/O
Module

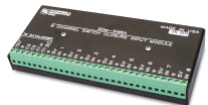


The SDM-SIO4A is a serial I/O expansion module for Campbell Scientific dataloggers. It is designed to add four additional and individually configurable and addressable RS-232, RS-422, or RS-485 (half- or full-duplex) serial ports to an SDM-capable datalogger for the purposes of interfacing with intelligent sensors, actuators, or displays. Up to three SDM-SIO4A modules can be connected to a single datalogger SDM port. The SDM-SIO4A channels behave much like a native datalogger serial port and use the same familiar serial I/O commands. The SDM-SIO4A is transient and surge protected to IEC61000-4-5 level 4 on the serial port interfaces, avoiding the need for separate transient protection in most applications.

Note: The SDM-SIO4A is not a direct replacement for the SDM-SIO4. The SDM-SIO4A consists of four SDM-SIO1A modules in a single package. Consequently, the SDM-SIO4A is a good replacement for up to four SDM-SIO1 modules or as an alternative to the SDM-SIO1A.

SDM-SW8A

8-Channel Switch
Closure Input Module



The SDM-SW8A increases the number of switch closures or voltage pulses a datalogger can measure. Sensors that output a switch closure or voltage pulse signal include tipping bucket rain gages, flow meters, and anemometers.

For comprehensive details, visit: www.campbellsci.eu/sdm-old



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