



SDM-CD16AC

16-Channel AC/DC Relay Controller



Greatly Expands Control Capacity

Use multiple modules for up to 256 control ports

Overview

The SDM-CD16AC allows a Campbell Scientific datalogger to automatically activate external ac or dc devices such as

motors, pumps, heaters, valves, and fans.

Benefits and Features

- › Allows the data logger to automatically turn devices on or off when a threshold (for example, temperature or water depth) has been reached
- › Addresses up to 16 SDM-CD16ACs, allowing up to 256 ports to be controlled by one data logger
- › Includes LEDs that indicate when a port is active
- › Provides a manual override for each port
- › UL/CUL approved product

Technical Description

The SDM-CD16AC has a toggle switch that provides three positions: ON and OFF for manual override, and AUTO for data logger control.

- › In the ON position, the common (COM) and normally open (NO) contacts are closed.
- › In the OFF position, the normally open contact is open.

- › In the AUTO position, the state of the relay is controlled by the SDM command issued through the data logger's control ports or SDM terminal.

SDM Operation

The SDM-CD16AC is a synchronously addressed data logger peripheral. Data logger control ports 1, 2, and 3 are used to address the SDM-CD16AC, then clock out the desired state of each of the 16 control ports. Up to 16 SDM-CD16ACs may be addressed, making it possible to control a maximum of 256 ports from the first three data logger control ports.

Specifications

Operating Temperature Range	-25° to +50°C	Contact Operation	Single pole double throw (break before make)
Humidity	Non-condensing	Contact Material	Gold-clad silver

Coil Voltage	9 to 18 Vdc
Coil Resistance	360 Ω \pm 10%
Expected Life (contact closures)	Mechanical 10^7
Actuation/Release Time	~4 ms
Toggle Switch	<ul style="list-style-type: none"> › ON/OFF manual override › AUTO for data logger control
Operating Voltage	12 Vdc nominal (9 to 18 Vdc)
Standards	Underwriters Laboratories (UL) listed product (E162021)

Dimensions 24.6 x 5.1 x 8.6 cm (9.7. x 2.0 x 3.4 in.)

Weight 0.8 kg (1.8 lb)

Individual Contact Ratings

For DC Devices

- › 5 A (@ 30 Vdc)
- › 0.3 A (@ 110 Vdc)

For AC Devices

- › 5 A (1/10 hp) @ 125 Vac
- › 5 A (1/6 HP) @ 277 Vac

Current Drain @ 12 Vdc

Quiescent 6 mA

Per Active LED 45 mA (switch on or auto active)

For comprehensive details, visit: www.campbellsci.eu/sdm-cd16ac 



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