



SDM-CD16AC 16-Channel AC/DC Relay Controller



Greatly Expands Control Capacity

Use multiple modules for up to 256 control ports

devices. Each port can be controlled automatically by the data

logger's program or controlled manually with an override

Overview

With an SDM-CD16AC, your Campbell Scientific data logger can automatically activate external ac or dc devices such as motors, pumps, heaters, valves, and fans. This ac/dc relay controller has 16 ports for connecting your ac or dc

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

toggle switch.

Detailed 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

Function	Allows a data logger to automatically activate external ac or dc devices such as motors, pumps, heaters, valves, and fans.
Number of Channels	16
Operating Temperature	-40° to +55°C
Humidity	Non-condensing
Contact Operation	Single pole double throw (break before make)
Contact Material	Gold-clad silver
Coil Voltage	11 to 18 Vdc
Coil Resistance	$360\Omega\pm10\%$
Expected Life (contact closures)	Mechanical 10 ⁷
Actuation/Release Time	~4 ms
Toggle Switch	 AUTO for data logger control ON/OFF manual override

Operating Voltage	12 Vdc nominal (11 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	
Normally Open Rating	 5 A (@ 30 Vdc) 5 A (@ 250 Vac) 5 A (@ 125 Vac)
Normally Closed Rating	 1 A (@ 30 Vdc) 2 A (@ 250 Vac) 3 A (@ 125 Vac)
Current Drain @ 12 Vdc	
Quiescent	6 mA
Per Active LED	45 mA (switch on or auto active)

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



 CAMPBELL
 Campbell Scientific, Inc.
 815 W 1800 N
 Logan, UT 84321-1784
 (435) 227-9120
 www.campbellsci.com

 SCIENTIFIC
 AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | INDIA | SOUTH AFRICA | SPAIN | THAILAND | UK | USA