



Expands Low-Voltage Control Capacity

For low-power applications

Overview

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.

Benefits and Features

- ▶ Intended for low-voltage, low-power applications not suitable for the SDM-CD16AC

Technical Description

The SDM-CD16D increases the number of digital outputs that can be controlled (i.e., set to 0 or 5 V) by a Campbell Scientific datalogger. In addition to being able to drive normal logic level inputs, when an output is set HI, a boost circuit allows it to source a current of up to 100 mA for controlling low voltage valves, relays, or other devices.

Up to 15 SDM-CD16Ds may be addressed, making it possible to control a maximum of 240 ports from the first three datalogger control ports.

Datalogger Connection

The SDM Jumper Wire Kit (pn #32505) connects up to four SDMs to the datalogger. This kit is recommended when multiple SDMs are connected to one datalogger or for extremely short distances between the SDM and datalogger. The CABLE5CBL-L cable is recommended for connecting a single SDM to the datalogger, and for longer distances between the SDM and datalogger.

Specifications

Function	Increases the number of digital outputs that can be controlled by a data logger. It also sources current of up to 100 mA for controlling low-voltage valves, relays, or other devices.
Number of Channels	16
Operating Temperature	-25° to +70°C

Operating Voltage	9 to 18 Vdc
Current Drain	100 µA typical (all ports HI, no load)
EMC Status	Complies with EN55022-1:1998, and EN50082-1:1998.
Output Voltage (no load)	Output ON/HI, nominal 5 V (minimum 4.5 V)

Output OFF/LO	Nominal 0 V (maximum 0.1 V)
Output Source Current	Output sources 36 mA @ 3 V, 115 mA short-circuited to ground
Maximum Output Current (total all outputs)	400 mA and 50°C and 12 V supply (The maximum current [total all outputs] should be derated by

	50 mA for every 10°C above 50°C and/or 50 mA for every voltage above 12 V.)
Dimensions	<ul style="list-style-type: none"> › 23.4 x 9.9 x 2.0 cm (9.2 x 3.9 x 0.8 in.) with mounts › 18.0 x 9.9 x 2.0 cm (7.1 x 3.9 x 0.8 in.) without mounts
Weight	318 g (11 oz)

For comprehensive details, visit: www.campbellsci.eu/sdm-cd16d 



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