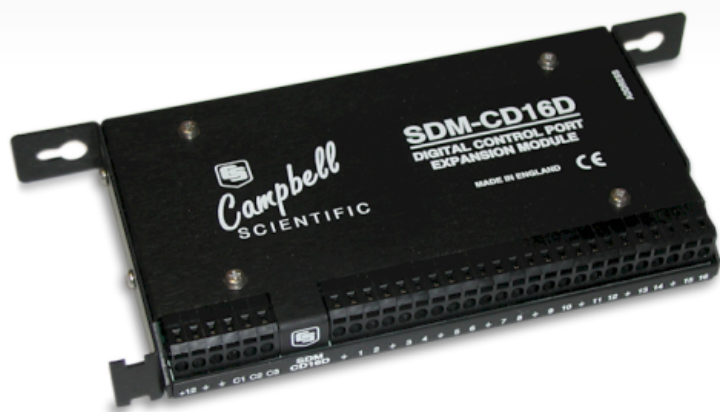




# SDM-CD16D

## 16-Channel Digital Control Port Module



# 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 data logger. 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

### Detailed 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 data logger. 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 data logger control ports.

### Data Logger Connection

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

### 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 $\mu$ A 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"> <li>› 23.4 x 9.9 x 2.0 cm (9.2 x 3.9 x 0.8 in.) with mounts</li> <li>› 18.0 x 9.9 x 2.0 cm (7.1 x 3.9 x 0.8 in.) without mounts</li> </ul> |
| Weight                                     | 318 g (11 oz)   |

For comprehensive details, visit: [www.campbellsci.com/sdm-cd16d](http://www.campbellsci.com/sdm-cd16d) 



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