



Expands Datalogger Control Capacity

For dc devices with moderate current loads

Overview

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.

Benefits and Features

- › Provides a manual override
- › Enables multiple SDM-CD8S devices to be wired to one data logger, increasing the number of devices that can be controlled
- › Includes LEDs that provide a visual indicator of active outputs

Technical Description

The SDM-CD8S has eight dc-voltage outputs and returns that can be switched on and off manually or under datalogger control. When the manual control switch is in the ON position, outputs are controlled by the position of the individual rocker switches. In the OFF position the state of the relays is controlled by the SDM commands from the datalogger.

The voltage range for this device is 8 to 26 Vdc. It can deliver up to 1 A per channel with a maximum of 6 A total for all

channels. The power Input (8 to 26 Vdc) powers both the outputs and the SDM-CD8S logic.

SDM Operation

The SDM-CD8S is a synchronously addressed datalogger peripheral. Datalogger control ports 1, 2, and 3 are used to address the SDM-CD8S, then clock out the desired state of each of the 8 control ports. Up to 15 SDM-CD8S Controllers may be addressed, making it possible to control a maximum of 120 ports from the first three datalogger control ports.

Specifications

Function	Allows the data logger to control dc devices that have a	moderate current load, such as solenoids, solenoid valves, dc
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	motors, stepper motors, lights, horns, heaters, and fans.
Number of Channels	8
Supply Voltage Range	8 to 26 Vdc
Operating Voltage	12 Vdc
Logic Current Drain (@ 12 Vdc)	<ul style="list-style-type: none"> › 15 mA (quiescent) › 2.5 mA per active LED (manual or auto)

Toggle Switch	<ul style="list-style-type: none"> › Individual dip switches for manual › MANUAL, OFF, AUTO
Maximum Current	<ul style="list-style-type: none"> › 1 A (per channel) › 6 A (all channels total)
Actuation/Release Times	8 μs/200 μs
Operating Temperature	-40° to +70°C
Dimensions	11.1 x 8.6 x 2.4 cm (4.4 x 3.4 x 0.9 in.)

For comprehensive details, visit: www.campbellsci.eu/sdm-cd8s 