



Overview

The SDM-SIO1 is an RS-232, RS-422, or RS-485 serial expansion module. Up to fifteen SDM-SIO1 modules may be connected to a single data logger SDM interface. This module is commonly used to interface serial sensors to a

data logger. Please refer to the Compatibility information regarding which data loggers the SDM-SIO1 may be used with.

Benefits and Features

- › Expands the number of serial devices that can communicate with the data logger

Technical Description

The SDM-SIO1 is a serial expansion module that allows a data logger to communicate with serial devices that interface using true RS-232, RS-422, or RS-485 signals. Up to fifteen SDM-SIO1 modules may be connected to a single data logger SDM interface. Remote serial devices use industry standard hardware and protocols to connect to the data logger through the SDM-SIO1 interface. When operating in the RS-232 mode, the module also provides hardware handshaking. The SDM-SIO1 Module is

implemented in such a way that it looks like a built-in serial port to the user when writing programs in CRBasic. This means that all the user needs to do is define the address of the SDM-SIO1, using a rotary switch on the side of the unit. The serial port can then be used as if it were built into the data logger.

Specifications

Modes of Operation	› RS-232 (full duplex & receive only) › RS-422 (half and full duplex) › RS-485 (half and full duplex)
Data Rates	300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200 bps

Data Format	› 8, 7 bit data size › One or two stops bits › None, odd or even parity
EMC Compliance	Complies with IEC 61326.
Power Supply Connection	+12 V
Operating Voltage	› 12 V (nominal) › 7 V (minimum)

	› 20 V (maximum)
Operating Temperature	-25° to +55°C
Dimensions	5.4 x 8.0 x 2.5 cm (2.2 x 3.1 x 1.0 in.)

Current Drain

Standby	› 70 µA (nominal)
	› 100 µA (maximum)

Active	5 to 13 mA (depending on transmit mode and connections made)
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Buffer

Storage Type	Both transmit and receive buffers are fill and discard.
Transmit-Buffer Size	767 bytes (buffer from data logger to sensor)
Receive-Buffer Size	2047 bytes (buffer from sensor to data logger)

For comprehensive details, visit: www.campbellsci.eu/sdm-sio1 



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