

SC105

CS I/O to RS-232 DCE Interface

Our SC105 Interface supports communications between a Campbell Scientific datalogger and an RS-232 DCE device. Common DCE devices used with the SC105 include our RavenXT-series digital cellular modems, third-party radios, and third-party modems. The SC105 provides internal buffering that temporarily stores data. This buffering allows the datalogger and DCE device to operate at different baud rates by storing the data received from the faster device until the slower device is ready to receive it. Internal buffering also ensures that no data is lost during transmission.

Features

- Communicates at baud rates up to 115,200
- Allows the datalogger and DCE device to operate at different baud rates
- Ensures no data is lost during transmission
- Operates at -25° to +50°C (extended temperature range of -55° to +85°C available)
- Outputs data to a serial printer

Cable Connections and Mounts

Three cables (13657 Null Modem Cable, SC12 CS I/O Data Cable, and 10873 Serial Data Cable) are shipped with the SC105. The 13657 cable is used to program the device via a computer. The SC12 cable connects the SC105 to the datalogger, and the 10873 cable connects the SC105 to the RS-232 DCE device. An SC12R-6 cable (purchased separately) may be used instead of the SC12 cable if a longer cable is required.

The 16987 mounting kit is available for attaching the SC105 to the backplate of an environmental enclosure.

Ordering Information

Model	Description
SC105	CS I/O to 9-Pin RS-232 DCE Synchronous Interface
-ST	Standard Temperature Range (-25° to +50°C)
-XT	Extended Temperature Range (-55° to +85°C)
Accessory	
16987	Peripheral Mounting Kit.



The SC105 can also be used as an interface to a serial printer.

Specifications

Baud rates supported:	1200, 9600, 19200, 38400, 57600, 115200
RS-232 parity supported:	even, odd, none
RS-232 data bits supported:	7, 8
CS I/O port modes:	CSDC, SDC, ME, Addressed Print Device for P96 output
Power source:	Datalogger's 5 V supply
Current drain	
Standby:	0.16 mA
While communicating:	1 to 4 mA
<i>Additional current (up to 8 mA) may be used by the DCE device connected to the SC105.</i>	
Operating temperature range:	
Standard:	-25° to +50°C
Extended:	-55° to +85°C
Operating relative humidity:	up to 95% non-condensing
Dimensions:	0.9" x 1.6" x 3.5" (2.3 x 4.1 x 8.9 cm)
Weight:	1.6 oz (45.4 g)

