



SC105

CS I/O to 9-Pin RS-232 DCE Synchronous Interface



## Communication Support

### Overview

The SC105 is a CS I/O to RS-232 adapter used to connect a Campbell Scientific data logger to an RS-232 DCE device. Common DCE devices used with the SC105 include cellular modems, radios, and smart serial sensors. The SC105 is

compatible with any data logger that has a CS I/O port. Multiple SC105 interfaces can be connected to a single data logger CS I/O port.

### Benefits and Features

- › Supports communication between a data logger and an RS-232 DCE device
- › Communicates at baud rates up to 115.2 kbps
- › Provides internal buffering capability to ensure no data is lost during transmission
- › Data logger can operate at a different baud rate than the DCE device
- › No power source needed—powered by the datalogger and computer
- › Compatible with most Campbell Scientific data loggers
- › Helps protect components from electrical damage
- › Ships with cables needed for most uses

### Detailed Description

The SC105 provides internal buffering that temporarily stores data. This buffering allows the data logger 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.

### Specifications

Baud Rates Supported 1200, 9600, 19200, 38400, 57600, 115200 bps

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 Requirements	Data logger's 5 V supply
Current Drain	<ul style="list-style-type: none"> <li>› 0.16 mA (standby)</li> <li>› Up to 8 mA of additional current may be used by the DCE device connected to the SC105.</li> </ul>

	› 1 to 4 mA (communicating)
Operating Temperature Range	<ul style="list-style-type: none"> <li>› -55° to +85°C (extended)</li> <li>› -25° to +50°C (standard)</li> </ul>
Operating Relative Humidity	up to 95% (non-condensing)
Dimensions	2.3 x 4.3 x 9.2 cm (0.9 x 1.7 x 3.6 in.)
Weight	45.4 g (1.6 oz)

For comprehensive details, visit: [www.campbellsci.com/sc105](http://www.campbellsci.com/sc105) 



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