



## Communication Support

### Overview

The SC105 is a CS I/O to RS-232 adapter used to connect a Campbell Scientific datalogger 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 datalogger that has a CS I/O port. Multiple SC105 interfaces can be connected to a single datalogger 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

### Technical 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>› Up to 8 mA of additional current may be used by the DCE device connected to the SC105.</li> <li>› 0.16 mA (standby)</li> <li>› 1 to 4 mA (communicating)</li> </ul>
---------------	--

---

Operating Temperature Range	<ul style="list-style-type: none"> <li>› -25° to +50°C (standard)</li> <li>› -55° to +85°C (extended)</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.eu/sc105](http://www.campbellsci.eu/sc105) 



80 Hathern Road, Shepshed, LE12 9GX UK | +(0)1509 828888 | [sale@campbellsci.co.uk](mailto:sale@campbellsci.co.uk) | [www.campbellsci.eu](http://www.campbellsci.eu)  
 UK | AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | THAILAND | SOUTH AFRICA | SPAIN | USA

© 2018 Campbell Scientific, Ltd. | 11/02/2018