

SC929 RS232 INTERFACE INSTRUCTION MANUAL

9/96

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SC929 RS232 INTERFACE

The SC929 temporarily connects a Campbell Scientific battery-powered PC to a datalogger for data retrieval and program transfer. This interface is typically used in remote locations.

1. SPECIFICATIONS

Operating temperature: -25° C to +50° C

Power: Powered by datalogger; current consumption typically 8 mA

Connections: 9-pin male; connects to datalogger
9-pin female; configured as DCE, connects to AT-type portable PC

Length: 2 m (6 ft.) cable fitted with two 9-pin 'D' connectors

Weight: 225 g (~8 oz.)

2. APPLICATION

The SC929 provides a two-way conversion between datalogger logic levels (0 V low, 5 V high) and RS232 logic levels (e.g., -8 V low, + 8 V high). It may be used in applications where a battery-powered laptop is taken to the field to communicate with the datalogger (e.g., transfer data or programs, set clock, monitor data, etc.). It provides a neat, single-cable alternative to an SC12 cable, 7026 cable, and an SC32A Interface, but with some differences (see adjoining note).

NOTE:

There are some significant differences between the SC929 and the SC32A:

- The SC929 does not provide opto-isolation. To prevent ground loops, do not use the SC929 with a computer directly connected to power, powered AC, or other ground-referenced power supplies.
- Unlike the SC32A, the SC929 consumes significant levels of power from the datalogger. To avoid unnecessary power drain, disconnect the SC929 from the datalogger serial I/O port when the SC929 is not in use.
- The SC929 does not have the jumper option that is available with the SC32A and in certain situations odd characters may appear on the PC screen. However, this will not affect the correct operation of Campbell Scientific software.

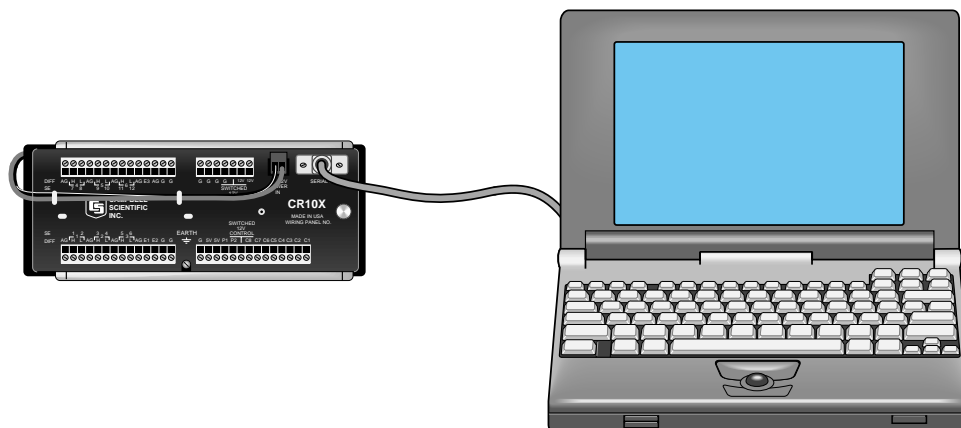


FIGURE 1. The SC929 connects the datalogger's Serial I/O with a laptop's serial port for two-way communication.