

INSTRUCTION MANUAL



SC929 RS232 Interface

9/96

Warranty and Assistance

The **SC929 RS232 INTERFACE** is warranted by CAMPBELL SCIENTIFIC, INC. to be free from defects in materials and workmanship under normal use and service for twelve (12) months from date of shipment unless specified otherwise. Batteries have no warranty. CAMPBELL SCIENTIFIC, INC.'s obligation under this warranty is limited to repairing or replacing (at CAMPBELL SCIENTIFIC, INC.'s option) defective products. The customer shall assume all costs of removing, reinstalling, and shipping defective products to CAMPBELL SCIENTIFIC, INC. CAMPBELL SCIENTIFIC, INC. will return such products by surface carrier prepaid. This warranty shall not apply to any CAMPBELL SCIENTIFIC, INC. products which have been subjected to modification, misuse, neglect, accidents of nature, or shipping damage. This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose. CAMPBELL SCIENTIFIC, INC. is not liable for special, indirect, incidental, or consequential damages.

Products may not be returned without prior authorization. The following contact information is for US and International customers residing in countries served by Campbell Scientific, Inc. directly. Affiliate companies handle repairs for customers within their territories. Please visit www.campbellsci.com to determine which Campbell Scientific company serves your country. To obtain a Returned Materials Authorization (RMA), contact CAMPBELL SCIENTIFIC, INC., phone (435) 753-2342. After an applications engineer determines the nature of the problem, an RMA number will be issued. Please write this number clearly on the outside of the shipping container. CAMPBELL SCIENTIFIC's shipping address is:

CAMPBELL SCIENTIFIC, INC.

RMA# _____

815 West 1800 North

Logan, Utah 84321-1784

CAMPBELL SCIENTIFIC, INC. does not accept collect calls.

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.

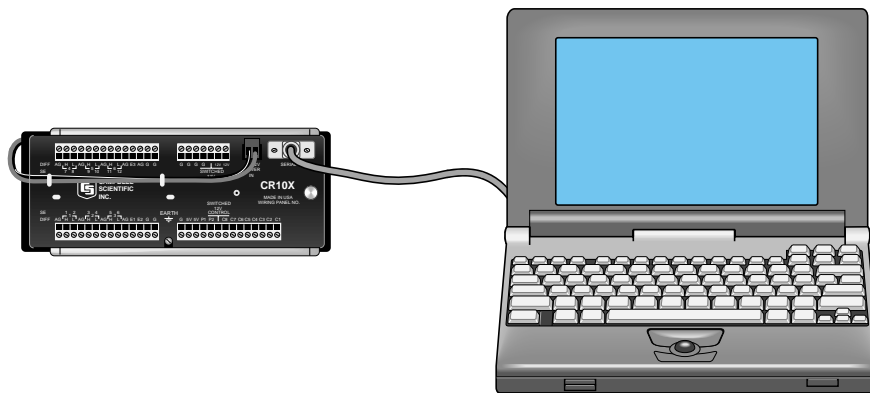


FIGURE 1. The SC929 connects the datalogger's Serial I/O with a laptop's serial port for two-way communication.

SC929 RS232 INTERFACE

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