

SC-USB

Datalogger to USB Interface

The SC-USB interface allows direct communication between a Campbell Scientific datalogger and a PC equipped with a USB port. Multiple devices can be connected to the SC-USB in parallel.

The SC-USB is optically isolated, which helps eliminate noise pick up associated with PC power supplies and ground connections. Because the connection is optically isolated, the SC-USB interface can replace an SC32B/USB converter combination.

The SC-USB is shipped with an SC12 CS I/O cable, 17648 USB cable, and a driver CD. The SC12 cable connects the SC-USB to the datalogger, and the 17648 cable connects the SC-USB to the computer. The CD contains suitable drivers and a set-up/programming utility.

Features

- Connects our dataloggers to a PC equipped with a USB port
- Supports various communication protocols including ME, SDC, and CSDC
- Allows parallel connection with other modems without a serial switch
- Transfers data at rates up to 1 Mbps



The SC-USB provides an isolated connection, which can also operate at higher speeds than conventional RS-232 connections.



In December 2009, the 17648 USB cable began shipping with the SC-USB. Prior to December 2009, the SC-USB was fitted with a USB cable as part of its integrated package.

Specifications

Compatible Dataloggers: CR800, CR850, CR1000, CR3000, CR5000, CR9000X, CR7, CR510, CR10X

Power: Drawn from the PC and datalogger

Current Drain
Drawn from Datalogger: <1 mA standby, <20 mA active
Drawn from PC: <18 mA standby, <85 mA active

Communication Protocols Supported: Modem Enable (ME); Synchronous Device Communications (SDC); Concurrent Synchronous Device Communications (CSDC)

Communication Rates:
Asynchronous: 9600 bps to 115 kb
Synchronous: up to 1 Mbps

CS I/O Port: Opto-isolated (signal isolation only) from the PC's USB port to 47 Vac or dc

17648 Cable Description: 6-ft (1.8 m) length; type-A male to type-B male

Operating Range: -25° to +50°C

Dimensions
Height: 0.8 in (2 cm)
Width: 1.6 in (4 cm)
Length: 3 in (7.5 cm)

Weight: 3 oz (85 g)

