

# 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

<b>Compatible Dataloggers:</b>	CR800, CR850, CR1000, CR3000, CR5000, CR9000X, CR7, CR510, CR10X	<b>Communication Rates:</b> <b>Asynchronous:</b>	9600 bps to 115 kb
		<b>Synchronous:</b>	up to 1 Mbps
<b>Power:</b>	Drawn from the PC and datalogger	<b>CS I/O Port:</b>	Opto-isolated (signal isolation only) from the PC's USB port to 47 Vac or dc
<b>Current Drain</b> <b>Drawn from Datalogger:</b>	<1 mA standby, <20 mA active	<b>17648 Cable Description:</b>	6-ft (1.8 m) length; type-A male to type-B male
<b>Drawn from PC:</b>	<18 mA standby, <85 mA active		
<b>Communication Protocols Supported:</b>	Modem Enable (ME); Synchronous Device Communications (SDC); Concurrent Synchronous Device Communications (CSDC)	<b>Operating Range:</b>	-25° to +50°C
		<b>Dimensions</b> <b>Height:</b>	0.8 in (2 cm)
		<b>Width:</b>	1.6 in (4 cm)
		<b>Length:</b>	3 in (7.5 cm)
		<b>Weight:</b>	3 oz (85 g)

