

SC532A

CS I/O Peripheral to RS-232 Interface

The SC532A interface enables communications between a PC and some Campbell Scientific 9-pin peripherals. It is required to change the settings of a phone modem (COM200, COM210, COM220); communicate with an MD9 network; transfer programs and data to a storage module; download a new OS into an SM4M/SM16M storage module (retired); or program the SAT ARGOS transceiver (retired). The SC532A converts the peripheral's logic levels to the RS-232 levels required by the computer.

Power for the SC532A is provided by a 120 Vac wall outlet using the 15966 wall charger or a 12 Vdc source such as the datalogger (requires 14020 cable) or a battery (requires 14291 cable). The 15966 wall charger, 14020 cable, and 14291 cable are purchased separately (see Ordering Information).

An SC12 cable and a 10873 DB9-to-DB9 serial cable are provided with the SC532A. The SC12 cable is for connecting a peripheral to the interface, and the 10873 cable is for connecting the interface to a computer 9-pin serial port. Alternately, the longer SC12R-6 cable can be used for peripheral connections. Computers with only a 25-pin serial port require a DB9-to-DB25 serial cable such as the 7026.



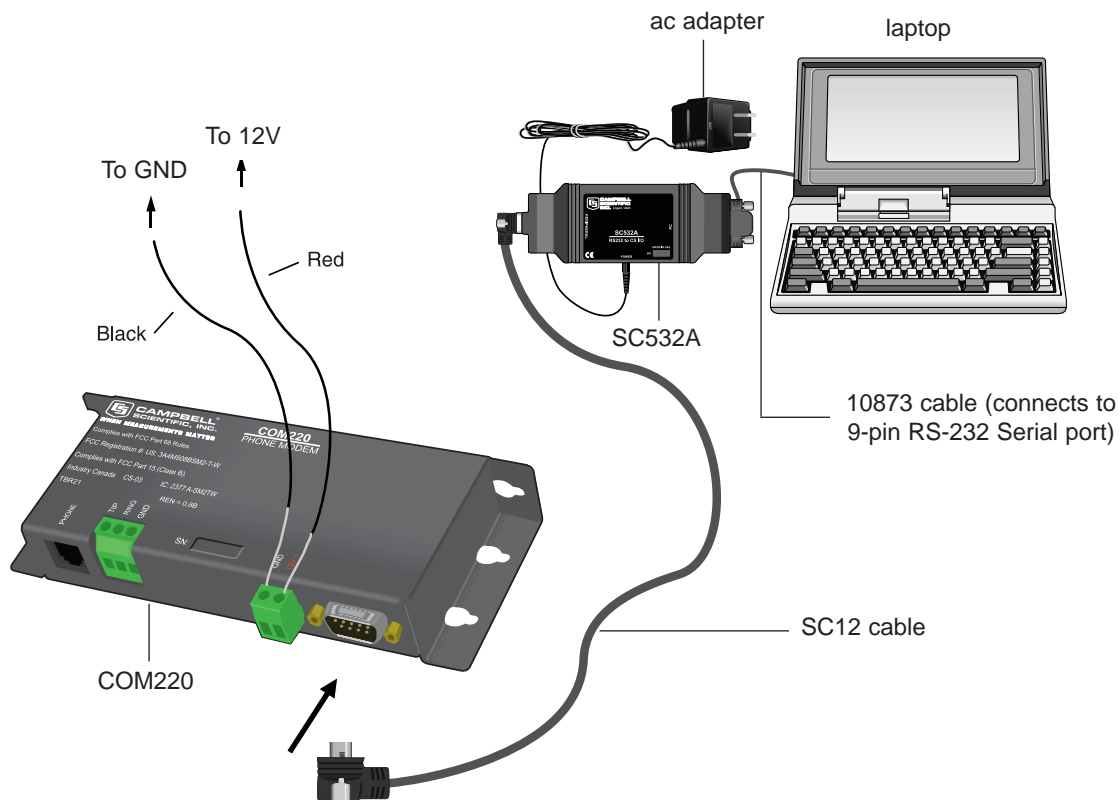
Ordering Information

Interface

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Common Accessories

- 15966** Wall charger that allows ac power to serve as the power source for the SC532A. The wall charger has a 12 Vdc, 800 mA output and a 90 to 260 Vac input. Cable length is 6 ft.
- 14020** Field Power Cable CS I/O to 12 Vdc Barrel Plug, 2-ft length. Allows the datalogger's power supply to be used.
- 14291** Field Power Cable 12 Vdc Plug to Pigtail, 2-ft length. Allows any 12 Vdc power source that shares a common ground with the datalogger's power supply to be used.



Specifications

Input Voltage (to POWER jack)	
for 5 V peripherals:	6 to 17 Vdc
for 12 V peripherals:	12 to 17 Vdc
Output Voltages:	5 Vdc ± 0.075 Vdc on PERIPHERAL connector pin 1 6 to 17 Vdc on PERIPHERAL connector pin 8, depending on ac adapter used (12 Vdc unregulated using factory AC adapter)
Power Available	
5 V peripherals:	5 Vdc @ 120 mA maximum at 25°C; derate 12 mA for each AC adapter. Voltage above 9 Vdc; derated 1 mA for each degree Celsius above 25°C.
12 V peripherals:	Factory-provided AC adapter supplies an unregulated 12 Vdc @ 1 A
RS-232 Output Levels:	± 10 Vdc ± 1 Vdc; maximum output impedance = 1100 Ω

RS-232 Input Levels:	± 30 V maximum; low threshold ≤ 0.8 V; high threshold ≥ 3.5 V; input impedance 3000 Ω
9-pin Inputs:	Low ≤ 1 V; high ≥ 3.5 V
9-pin Outputs:	Low ≤ 0.5 V; high ≥ 3.5 V
Current drain:	5 mA typical quiescent 10 mA max. quiescent
Port Configuration	
PC:	9-pin D-subminiature female configured as DCE
Peripheral:	9-pin D-subminiature female connects to peripheral through the SC12 cable supplied with the SC532A
Dimensions:	4.7 in. x 1.7 in. x 0.9 in.; (11.9 x 4.3 x 2.3 cm); allow up to 1.25 in. extra on each of the sides for power connector insertion.
Weight (with ac adapter):	1.25 lbs (567 g)

