



SC532A

CS I/O Peripheral to RS-232 Interface



Overview

The SC532A interface enables communications between a PC and a Campbell Scientific 9-pin peripheral by providing power and converting the peripheral's logic levels to the RS-232 levels required by the computer.

The SC532A is required to:

- › Connect a PC to the RF500M Radio Modem's CS I/O port instead of its RS-232 port.
- › Change the COM200-series phone modem's settings
- › Communicate with an MD9 network
- › Transfer programs and data to a SM4M/SM16M storage module (retired)

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

- › RS-232 Output Levels: ± 10 Vdc ± 1 Vdc
- › Maximum Output Impedance: 1100 Ω
- › Input Impedance: 3000 Ω
- › Dimensions: 11.9 x 4.3 x 2.3 cm (4.7 x 1.7 x 0.9 in)
- › Weight with ac wall charger: 567 g (1.3 lb)

RS-232 Input Levels

- › Maximum: ± 30 V
- › Low Threshold: ≤ 0.8 V
- › High Threshold: ≥ 3.5 V

9-pin Inputs

- › Low: ≤ 0.5 V
- › High: ≥ 3.5 V

9-pin Outputs

- › Low: ≤ 0.5 V
- › High: ≥ 3.5 V

Quiescent Current Drain

- › Typical: 5 mA
- › Maximum: 10 mA

Input Voltage (to POWER jack)

- › 5 V Peripherals: 6 to 17 Vdc
- › 12 V peripherals: 12 to 17 Vdc

Output Voltages

- › On PERIPHERAL Connector Pin 1: 5 Vdc ± 0.075 Vdc
- › On PERIPHERAL Connector Pin 8: 6 to 17 Vdc, depending on ac adapter used (12 Vdc unregulated using factory AC adapter)

Power Available

- › 5 V Peripherals: 5 Vdc at 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



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