

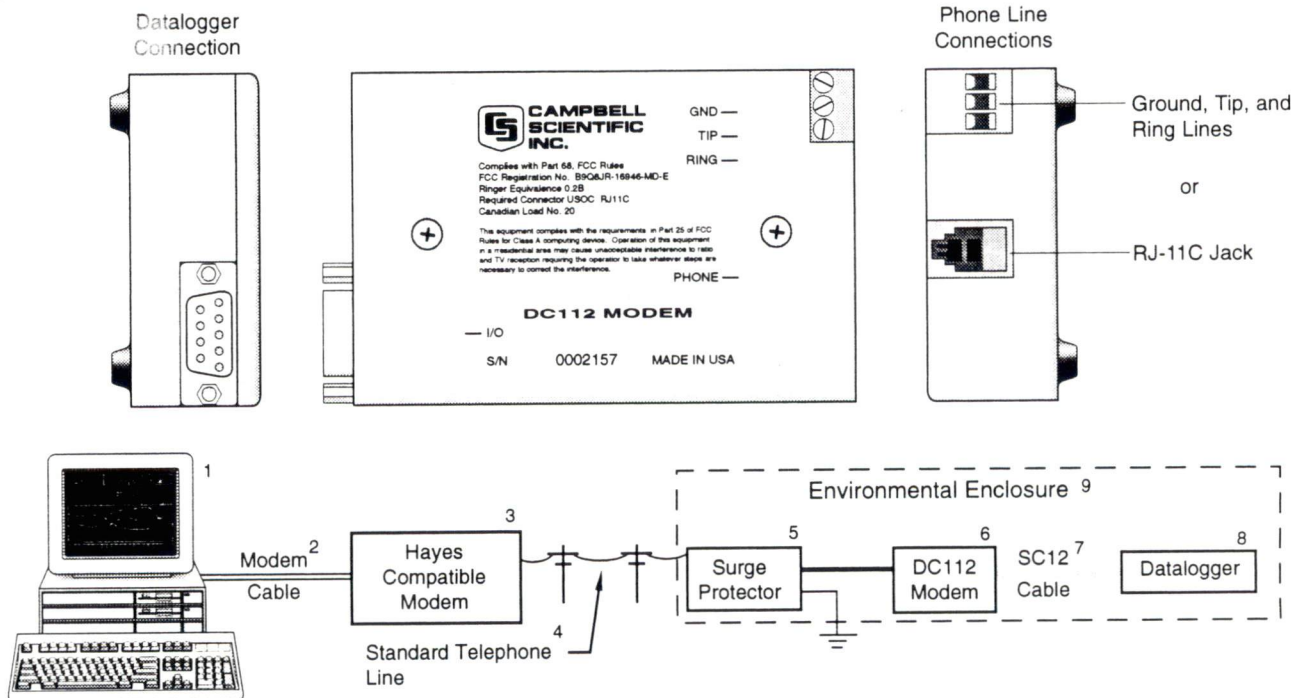
Telephone Modem

Model DC112

The DC112 Modem enables communication between a computer and a Campbell Scientific datalogger (CR10(X), CR500, 21X, or CR7) over a public switched telephone network. A Hayes-compatible modem is required at the computer; the DC112 is connected to the datalogger. The DC112's wide operating temperature range and low power requirements optimize it for use in remote applications.

PC208 or PC208W Software for the IBM® PC computer supports error-checking, manual or automated dialing, and can run unattended to take advantage of lower off-hour telephone rates.

We also offer cellular transceivers and voice-synthesized modems; contact Campbell Scientific for additional information.



Hardware Requirements

At Computer Base Station

- 1) User-supplied IBM-compatible computer. CSI's Model PC208 or PC208W Software required.
- 2) Modem cable (7026 for 9-pin serial ports, or equivalent, SC25PS for 25-pin serial ports)
- 3) Customer-supplied, Hayes-compatible modem at computer.
- 4) Connection to a switched telephone network at field site.

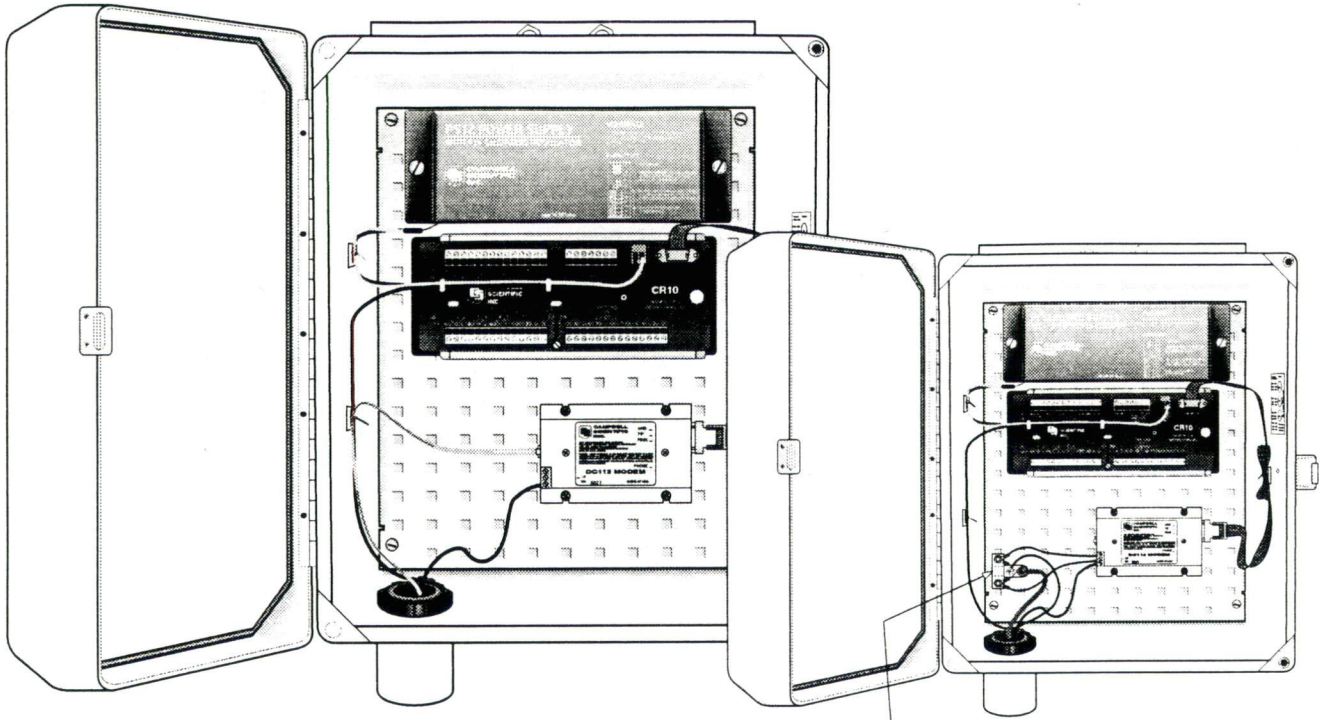
At Datalogger Site

- 5) Model 6362 (for use with enclosure) or Model 2372-01 Joslyn Telephone Surge Protector at each datalogger site (if the telephone company does not install a surge protector)
- 6) DC112 Modem at each datalogger site. Telephone line connected to DC112 by RJ-11C phone jack or screw terminals.
- 7) SC12 cable; provided with DC112. The more rugged SC12R cable is available as an option.
- 8) CR10(X), 21X(L), CR500, or CR7
- 9) Field use requires ENC 12/14 or ENC 16/18 enclosure



CAMPBELL SCIENTIFIC, INC.

815 W. 1800 N. • Logan, Utah 84321-1784 • (801) 753-2342 • FAX (801) 750-9540



DC112 in ENC 12/14 enclosure with CR10X datalogger and PS12 power supply. In this example, the phone company has installed a surge protector below the field of view.

Same equipment but with enclosure-mounted surge protector (Model 6362).

DC112 Specifications

- Standards
Bell 212A, CCITT V.22
- FCC Registration
No. B9Q8JR-16946-MD-E
Ringer Equivalence 0.2B
Communications Canada
Certification 802 2211 A
- Baud rates
300, 1200
- Operation
Full-duplex over standard phone lines
- Operating voltage
5 volts from datalogger
- Current drain
2 μ A quiescent
48 mA active
- Operating temperature
-25° to +50°C std, -55° to +80°C, optional
- Size
4.38" x 3.0" x 1.0"
- Weight (shipping)
12 oz (2 lbs)
- DC112 shipped with SC12 cable, ground cable, and telephone patch cord



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