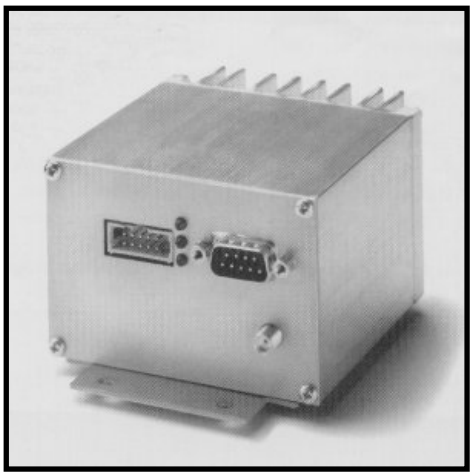
Radios, RF Modem, Base Station Package

Models RF300, 301, 302, 303, RF95M, RF232AM

The RF310 VHF radio, RF312 UHF radio, RF310M modem, and RF310B Base Station are used in Campbell Scientific radiotelemetry networks. The radios are manufactured by Dataradio CORE Ltd. The RF modem and Base Station are manufactured by CSI for use with these radios.



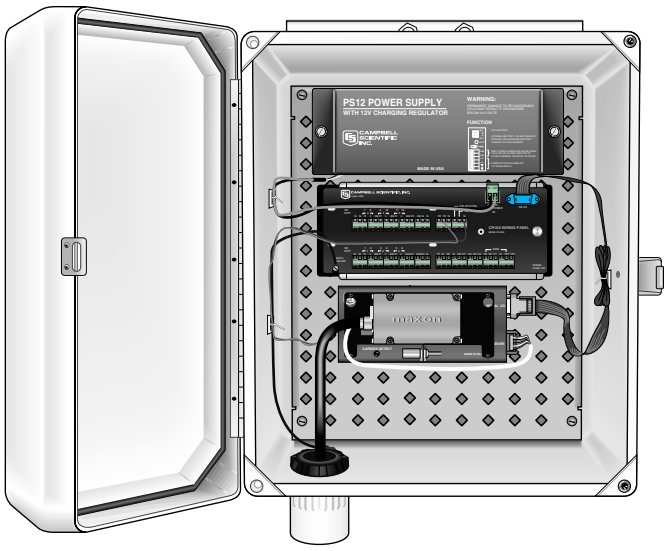
Features

- Meets NTIA narrowband and Industry Canada re-farming requirements for transmissions
- Allows the programming of the radio to the Industry Canada assigned frequency; contact us for details
- Compatible with our CR500, CR510, CR10(X) 21X, CR23X, and CR7 dataloggers
- Supports up to 16 channels

Ordering Information

When you obtain an Industry Canada license, Industry Canada assigns you a frequency. This frequency must be specified on your order to program the radio to your assigned frequency.

RF300	VHF Radio, 150 to 174 MHz
RF301	VHF Radio, 132 to 150 MHz
RF302	UHF Radio, 450 to 470 MHz
RF303	UHF Radio, 403 to 419 MHz
RF95M	Modem for Data Radio Core (DRC) Radios
RF232AM	RF Base Station Package for DRC Radios





A typical RF field station. Enclosure contents from top to bottom: PS12LA Power Supply, CR10X datalogger, RF300 radio (above), and RF95M modem (underneath). Antenna and most of cable not shown. (At right: RF telemetry system on CM10 tripod-based weather station.)

CAMPBELL SCIENTIFIC
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Specifications

RF300 Series Radios

Power output:	5 W at 13.3 V nominal
Frequency control:	Synthesized
Channel spacing:	15/30 kHz (VHF), 12.5/25 kHz (UHF)
Operation voltage:	13.3 Vdc nominal (10 to 16 Vdc operational)
Operating temperature:	-30° to +60°C
Humidity:	95% maximum RH at 40°C, non-condensing
Dimensions:	4.6" x 3.3" x 2.2" (11.7 cm x 8.4 cm x 5.6 cm)
Current drain:	50 mA quiescent, ~ 1.5 A while transmitting
IC Type Acceptance:	UHF: 933-195-238A; VHF: 933-195-245

RF95A Modem

Temperature range:	-25° to +50°C standard, -55° to +85°C extended
Dimensions:	7.8" x 3.3" x 1" (with connectors)
Weight:	0.5 lbs

RF232A Base Station

Temperature range:	-25° to +50°C
Connection:	25-pin RS-232 port for connection to PC
Power:	110 VAC
Weight:	6.3 lbs without the radio

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