

Installation Instructions

CBR-2
CBR-3

Carrier-band Repeaters

Power

The Repeater is powered from an AC or DC power source depending on the option chosen.

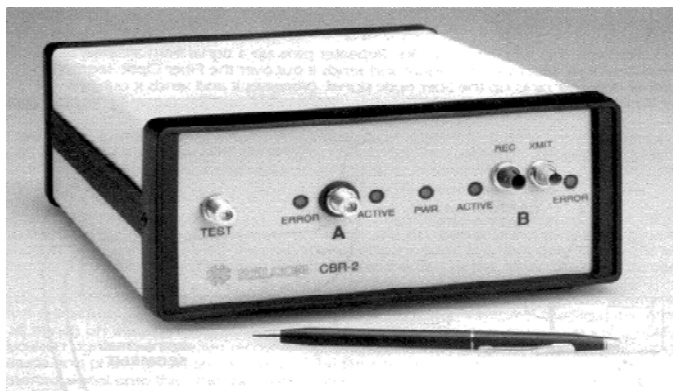
- AC power input range is from 85 to 240 Volts, 47 to 63 Hertz. The power cord connection to the Repeater is a standard IEC 320 plug. Different types of power cords can be used to adapt to various power sources.
- DC power input range is from 18 to 36 Volts DC.

Front Connectors

Test: F-type (Normally not connected. See manual for information.)

A: F-type (Connected to an IEEE-802.4 tap drop port).

B: ST front panel fiber optic connectors.



CBR-2 Front View

Grounding

Both F-connectors are grounded to the Repeater's case to reduce RFI emissions.

- On AC powered Repeaters the case is connected to the mains ground and to the ground stud.
- On DC powered Repeaters the case is connected to the ground terminal and to the ground stud.
- Attach a ground wire from the ground stud to the grounding facilities provided in the building. Use a grounding wire that has a current carrying capacity equal or greater than that of the drop cable outer conductor.

DC Version of the Carrier-band Repeater - Installation Note:

For DC Repeaters (CBR-2DC and CBR-3DC) it is important to note that these devices are considered to have a PERMANENT CONNECTION TO THE POWER SUPPLY, in order to comply with CSA and UL regulations a readily accessible disconnect device is required between the power connections on the Repeater and its power source. This shall be provided during the installation of the unit in a manner to comply with local regulations.

For both AC and DC Repeaters, users are warned not to disconnect power to the Repeater while the circuit is alive unless the location is known to be non-hazardous.

Installation

The Repeater is connected to segments of the Carrier-band network like any other station through a drop cable and a tap. The following should be considered when installing a repeater:

- Place the Repeater where its indicator lights can be seen. This will help identify and isolate network problems if they occur.
- While the Repeater is fully enclosed, it is not waterproof. Install the Repeater in a dry place.
- The Repeater operates at temperatures between -20 and +65 °C (-4 to 150 °F). However, do not install the Repeater in places where it will be heated by other equipment or where there is no airflow.

A 19" rack mounting kit for the Repeater is available.

CBR-A0050A Single
CBR-A0060A Double

For guidance about installing the carrier-band segment of the network, see Relcom's Carrier-band Network Handbook.

For guidance about the fiber optic segment of the network, see Relcom's Guide to Industrial Fiber Optics.

The above handbooks are available on the Relcom website:
www.relcominc.com/carrier-band/index.htm

