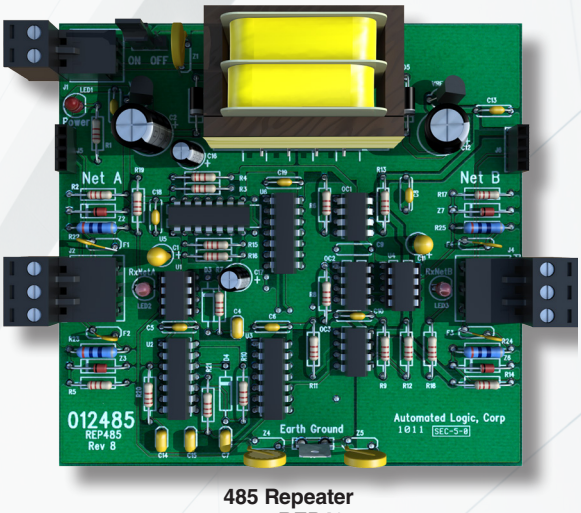
i-Vu® Building Automation System
Network Devices

Part Number: REP485, PROT485, & BT485

The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.

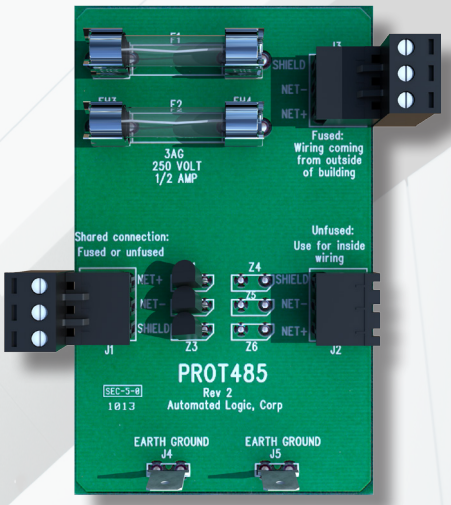
Carrier's ancillary network devices ensure optimum performance for BACnet MS/TP and other EIA-485 networks. These devices install easily and work together to amplify data signals and provide surge protection, bias, and termination to any EIA-485 network.



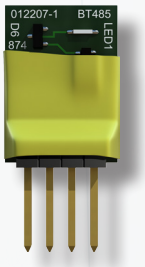
485 Repeater
part# REP485

Key Features and Benefits

- The REP485 allows you to expand your overall network by repeating and amplifying network signals from one network segment to the next.
- The PROT485 provides electrical surge protection to controllers installed within 250 ft. (76 m).
- The BT485 prevents end-of-line reflections, noise, and signal distortion by effectively terminating and biasing each network segment.



Electrical Surge Protection Board
part# PROT485



Biasing Terminators (16 pack)
part# BT485

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REP485

Power	24VAC ± 10%, 50-60Hz, 6 VA power consumption
Mounting	4” Snap Track
Terminals	Removable screw terminals
Ports	Net A and Net B are both EIA-485 (optically isolated)
Network Requirement	1 after every 31 controllers, after every 2000ft. (609.6m), or at each branch of a hybrid network
Network Wiring	22/24 AWG, single twisted shielded pair, low capacitance, CL2P wire
Operating Temperature	0 to 130°F (-17.8 to 54.4°C), 5-95% relative humidity, non-condensing
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), CE EN50082-1997
Dimensions	4” (width) by 4” (height) by 2” (depth) 102mm (width) by 102mm (height) by 51mm (depth)

PROT485

Power	n/a
Mounting	4” Snap Track
Terminals	Removable screw terminals
Network Requirement	At each place wire enters or exits the building, or for maximum protection, 1 recommended within 250ft. (76m) of each controller
Network Wiring	22/24 AWG, single twisted shielded pair, low capacitance, CL2P wire
Protection	2 replaceable 0.5 A fuses protect the Fused connection: F1, type 3AG, 250 Vac, 0.5 A, T (time-lag) F2, type 3AG, 250 Vac, 0.5 A, T (time-lag)
Operating Temperature	-20 to 140°F (-29 to 60°C), 10-90% relative humidity, non-condensing
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), CE EN50082-1997
Dimensions	4” (width) by 4” (height) by 2” (depth) 102mm (width) by 102mm (height) by 51mm (depth)

BT485

Network Requirement	1 at each controller that begins and ends a network segment greater than 10 ft (3m)
Operating Temperature	-20 to 140°F (-29 to 60°C)
Dimensions	.5” (width) by .6” (height) 12 mm (width) by 15 mm (height)

Carrier
United Technologies

CONTROLS EXPERT

Tested. Certified. Factory Authorized.

For more information, contact your local Carrier Controls Expert.
Controls Expert Locator:
www.carrier.com/controls-experts