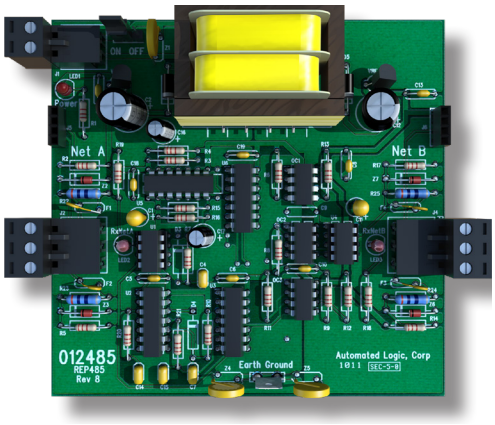
Carrier

i-Vu® Building Automation System
Network Devices

Part Numbers: REP485, PROT485, BT485

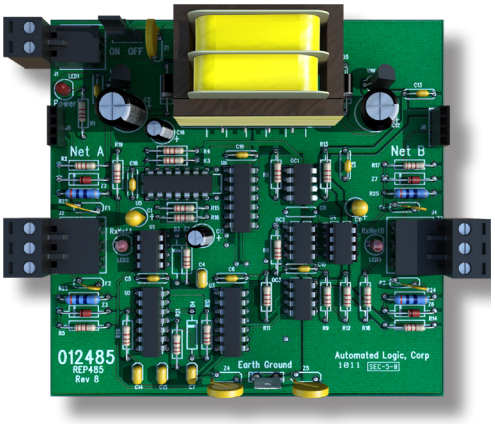


Carrier's ancillary network devices ensure optimum performance for BACnet MS/TP and other EIA-485 networks. These devices install easily and work together to amplify data signals and provide surge protection, bias, and termination to any EIA-485 network.

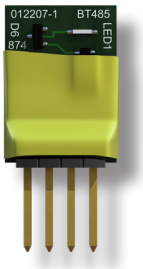
i Vu

Key Features and Benefits

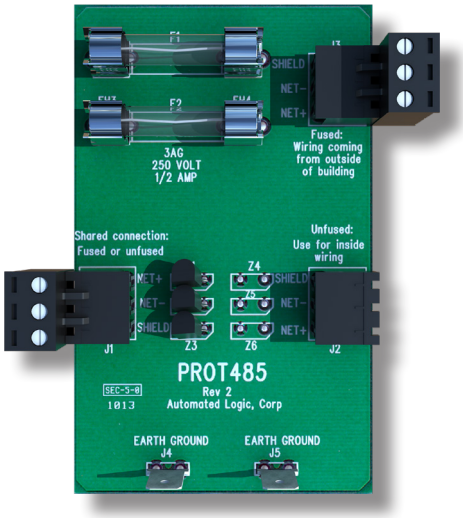
- The REP485 allows you to expand your overall network by repeating and amplifying network signals from one network segment to the next.
- The PROT485 provides electrical surge protection to controllers installed within 250 ft. (76 m).
- The BT485 prevents end-of-line reflections, noise, and signal distortion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



485 Repeater
Part #REP485



Biasing Terminators (16 pack)
Part #BT485



Electrical Surge
Protection Board
Part #PROT485

i-Vu® Building Automation System

Network Devices

Part Numbers: REP485, PROT485, BT485

REP485

Power	24 VAC ± 10%, 50-60Hz, 6 VA power consumption
Mounting	4 in. 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 130ºF (-17.8 to 54.4ºC), 5-95% relative humidity, non-condensing
Listed By	UL-916 (PAZX), cUL-916 (PAZX7), CE EN50082-1997
Dimensions	4 in. (width) by 4 in. (height) by 2 in. (depth) 102 mm (width) by 102 mm (height) by 51 mm (depth)

PROT485

Power	N/A
Mounting	4 in. 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 140ºF (-29 to 60ºC), 10-90% relative humidity, non-condensing
Listed By	UL-916 (PAZX), cUL-916 (PAZX7), CE EN50082-1997
Dimensions	4 in. (width) by 4 in. (height) by 2 in. (depth); 102mm (width) by 102mm (height) by 51 mm (depth)

BT485

Network Requirement	1 at each controller that begins and ends a network segment greater than 10 ft (3 m)
Operating Temperature	-20 to 140ºF (-29 to 60ºC)
Listed By	UL-916 (PAZX), cUL-916 (PAZX7), CE EN50082-1997
Dimensions	.5 in. (width) by .6 in. (height); 12 mm (width) by 15 mm (height)

©Carrier 2022. All Rights Reserved. **Cat. No. 11-808-420-01 Rev. 3/22**
Manufacturer reserves the right to discontinue, or change at any time, specifications or designs, without notice and without incurring obligations. Trademarks are properties of their respective companies and are hereby acknowledged.

For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
www.carrier.com/controls-experts