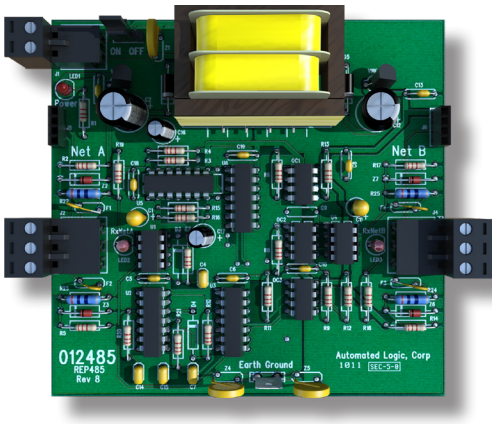
Carrier

i-Vu® Building Automation System
Network Devices

Part Numbers: REP485, PROT485, BT485

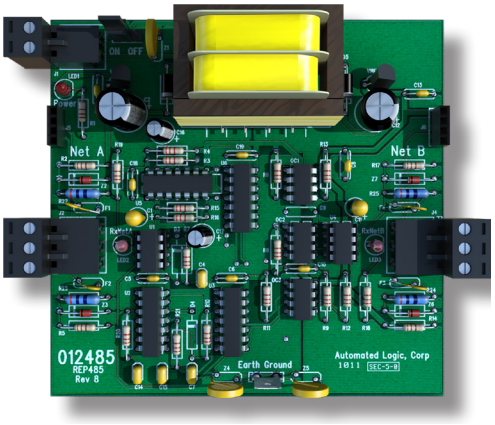


Carrier's ancillary network devices ensure optimum performance for BACnet MS/TP and other EIA-485 networks. These devices install easily and work together to amplify data signals and provide surge protection, bias, and termination to any EIA-485 network.

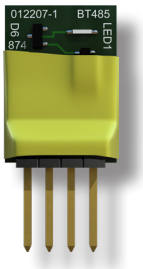
i Vu

Key Features and Benefits

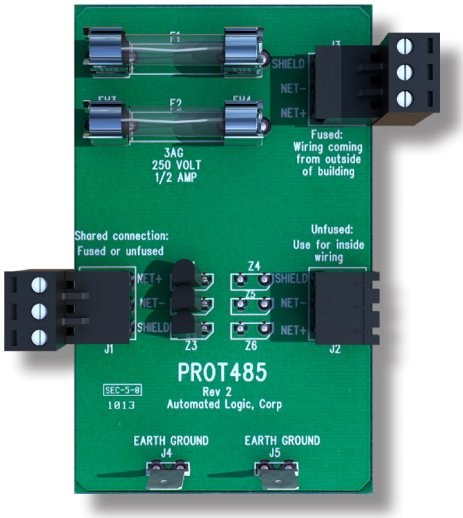
- The REP485 allows you to expand your overall network by repeating and amplifying network signals from one network segment to the next.
- The PROT485 provides electrical surge protection to controllers installed within 250 ft. (76 m).
- The BT485 prevents end-of-line reflections, noise, and signal distortion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



485 Repeater
Part #REP485



Blasing Terminators (16 pack)
Part #BT485



Electrical Surge
Protection Board
Part #PROT485

i-Vu® Building Automation System

Network Devices

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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)

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For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
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