

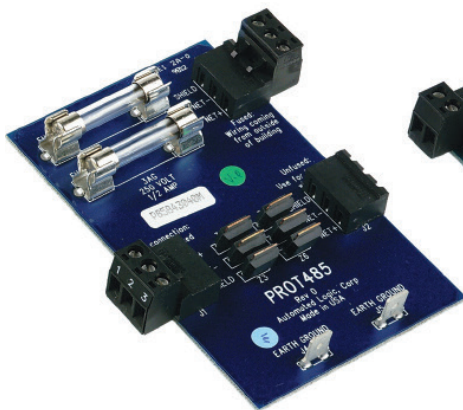
# ARCNET Performance Boards

## ARCNET 156 Kbps Ancillary Network Boards

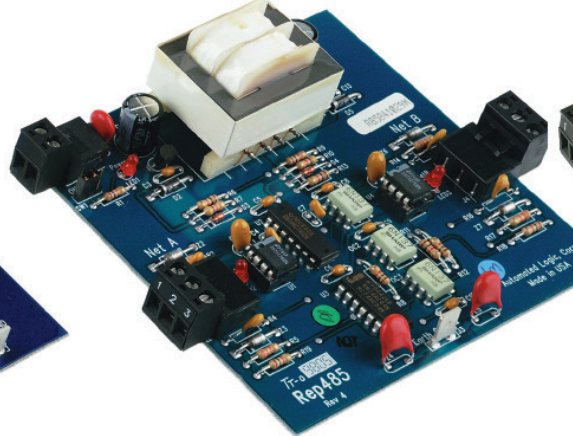
The Automated Logic® line of ARCNET performance boards are designed to improve the speed and performance of the WebCTRL® building automation system.

Designed to ensure the superior performance of ARCNET 156 Kbps in the field, this line of ARCNET ancillary network boards serve to properly terminate, bias, protect and repeat data transmitted over the twisted pair EIA-485 network. Based on a native BACnet architecture, the Automated Logic system uses ARCNET 156 Kbps as the high-speed building control network to connect the Equipment Portal, ME line, SE line and ZN controllers with a family of routers.

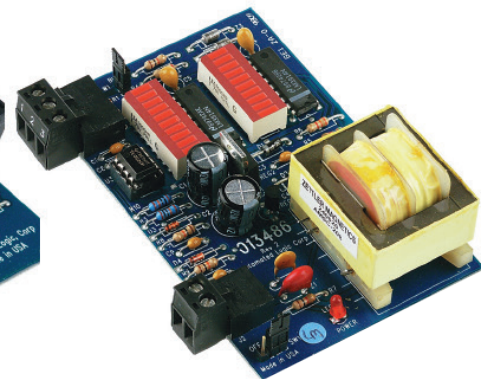
**PROT485**



**REP485**



**DIAG485**



### Key Features and Benefits

- **DIAG485** correctly biases the ARCNET 156 Kbps network independent of the length of the wiring and offers visual diagnostics of the signal levels.
- **REP485** creates a new network segment by amplifying and re-transmitting data - extending the length of the ARCNET 156 Kbps communication bus and the number of control modules that can be connected on one segment.
- **PROT485** protects controllers residing on the ARCNET156 Kbps network within 250 ft. (76m) from induced electrical surges on the twisted pair wiring.
- A termination resistor is used to effectively terminate every ARCNET wiring segment, preventing end-of-line reflections and noise.



The WebCTRL® building automation system gives you the ability to understand your building operations and analyze the results. The WebCTRL system integrates environmental, energy, security and safety systems into one powerful management tool that allows you to reduce energy consumption, increase occupant comfort, and achieve sustainable building operations. Our web-based platform allows building managers to control and access information about their HVAC, lighting, central plant and critical processes on premises or remotely at any time of day.

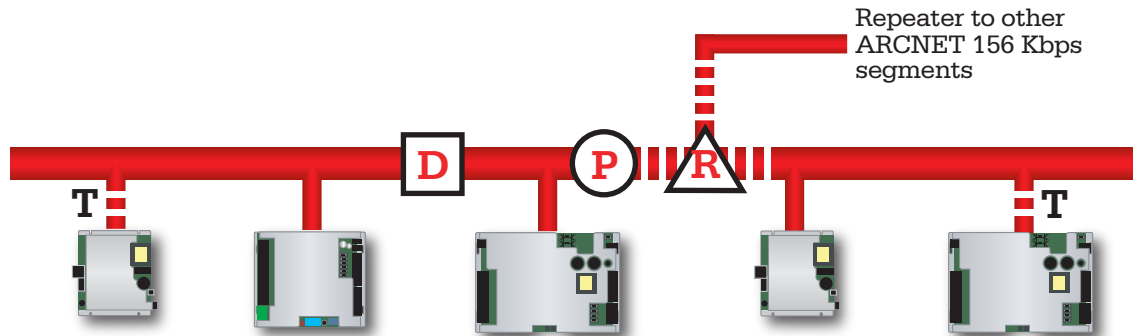


# ARCNET Performance Boards

## Specifications

### ARCNET Network Boards

D = DIAG485  
P = PROT485  
R = REP485  
T = 120 Ohm (1/2W)  
Termination  
Resistor



### DIAG485 Specifications

Power: 24 Vac  $\pm$ 10%, 7.2 VA, 50-60 Hz  
Mounting: 4" snap track  
Terminals: Removable screw terminals  
Network Requirement: One per network segment (see diagram)  
Listed By: UL916 (PAZX), cUL-916 (PAZX7), CE  
Dimensions : 2.5 in. (width) by 4 in. (height) by 2 in. (depth)  
6.35 cm (width) by 10.16 cm (height) by 5.1 cm (depth)

### PROT485 Specifications

Power: N/A  
Mounting: 4" snap track  
Terminals: Removable screw terminals  
Network Requirement: One recommended within 250 ft. (76 m) of each controller  
Listed By: CE  
Dimensions : 2.5 in. (width) by 4 in. (height) by 2 in. (depth)  
6.35 cm (width) by 10.16 cm (height) by 5.1 cm (depth)

### REP485 Specifications

Power: 24 Vac  $\pm$ 10%, 6 VA, 50-60 Hz  
Mounting: 4" snap track  
Terminals: Removable screw terminals  
Network Requirement: One every 32 modules or every 2500 ft. (762 m) with unshielded twisted pair  
Listed By: UL916 (PAZX), cUL-916 (PAZX7), CE  
Dimensions : 4 in. (width) by 4 in. (height) by 2 in. (depth)  
10.16 cm (width) by 10.16 cm (height) by 5.1 cm (depth)

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**AUTOMATEDLOGIC**  
United Technologies