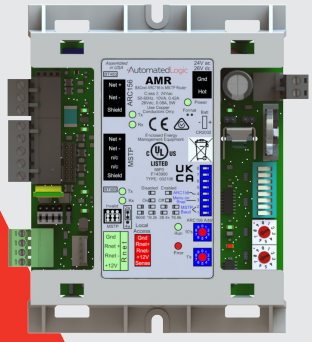
AMR

BACNET ARCNET TO BACNET MS/TP ROUTER



ROUTER FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

The ARCNET to MS/TP Router (AMR), is an integral component of the WebCTRL® building automation system.

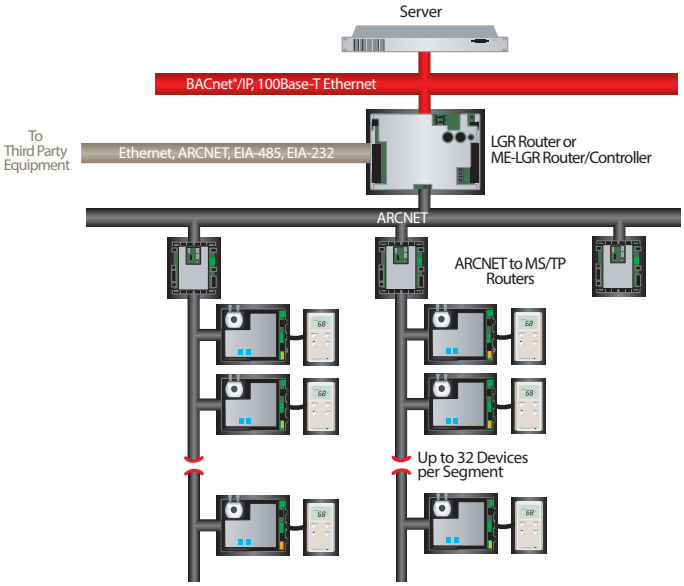
The AMR allows you to add a BACnet MS/TP network to an ARCNET 156 kbps network. The maximum amount of MS/TP devices on the MS/TP network should not exceed 32.

KEY FEATURES AND BENEFITS

Hardware Features

- Serves as an economical field router to a single BACnet MS/TP device or a network of BACnet MS/TP devices. NOTE: Recommended maximum is 32 BACnet MS/TP devices
- Rotary address switches for setting the AMR's network address
- Rnet port for local communication and driver download
- Battery-backed real-time clock plus RAM ensures continuous operation during power failures and communications failures
- Flash memory allows for easy field upgrades over network
- 16-bit microprocessor combined with ARCNET 156 kbps communications offers ample horsepower and speed for equipment integration
- Compact and rugged plastic enclosure for easy panel mounting

System Architecture

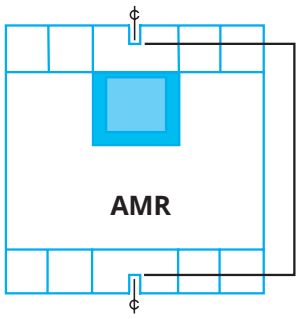


The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

SPECIFICATIONS

Part #	AMR BACnet ARCnet to BACnet MS/TP Router
BACnet Conformance	BTL Tested and conforms to the BACnet Application Specific Controller (B-ASC) standard device profile, as defined in ANSI/ASHRAE standard 135-2012 (BACnet) Annex L, Protocol Revision 9
Power	24 Vac +/- 10%, 50 - 60Hz, 10 VA, Single class 2 source only 20 VA or less / 26 Vdc +/- 10%, 5W
Communication	
ARC156 Port	For communication with the ARC156 network
MSTP Port	For communication with the MS/TP network on EIA-485 (2-wire). The AMR acts as a master device on the MS/TP network
Rnet Port	Not used
Local Access Port	For system start-up and troubleshooting
Status Indicators	LED's indicate status of communications, running, errors, and power
Environmental Range	0 to 130°F (-17.8 to 54.4°C), 10–90% relative humidity, non-condensing. Controller must be installed within the building.
Physical	Rugged GE C2950 Cycoloy plastic
Memory	2 MB non-volatile battery-backed RAM, 2MB flash memory, 16-bit memory bus
Real Time Clock	Battery-backed real-time clock keeps track of time in the event of a power failure
Compliance	**United States:** FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; **AS/NZS:** RCM Mark, IEC 61000-6-3; **Canada:** UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; **UKCA** Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH compliant
Microprocessor	High speed 16-bit microprocessor with ARCNET communication co-processor
Battery	10-year Lithium CR2032 battery retains the following data for a maximum of 10,000 hours during power outages: time and editable properties.
Protection	Built-in surge and transient protection for power and communications in compliance with EN61000-6-1. Incoming power and network connections are protected by non-replaceable internal solid-state polyswitches that reset themselves when the condition that causes a fault returns to normal. The power and network connections are also protected against transient excess voltage/surge events lasting no more than 10 msec.
BT485 Connector	Attach a BT485 (not included) to a controller at the beginning and end of a network segment to add bias and to terminate a network segment.

Figure 1: Physical Dimensions



	in.	cm
Width:	**4.0**	**10.2**
Height:	**5.0**	**12.7**
Weight:	**0.4 lbs**	**0.2 kg**

Assembled in the United States

Mounting:
5 9/16 in. (14.1 cm) between mounting slot centerlines

Automated Logic

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