

Conquest BAC-5051AE

BACnet Router

DESCRIPTION

The KMC Controls BAC-5051AE is a multi-port BACnet router. It is powerful enough for heavy network traffic and small enough to use as a control technician's service tool.

Routing Install the BAC-5051AE for BACnet IP, Ethernet, and MS/TP routing. IP routing is fully compliant with BACnet Standard 134-2012, Annex J.

Browser Configuration Configure the BAC-5051AE using only an Internet browser. There is no special software to learn or load.

Flexible Mounting Two mounting choices for permanent installations–DIN rail or surface mount.

Diagnostics Embedded metrics include: total number of devices, frame counts, frames in error, data frames, duplicate MAC addresses, token passing, and poll-for-master count.

MS/TP Diagnostics Capture Troubleshoot MS/TP issues by capturing, saving, and analyzing network traffic. Data is saved in industry standard .pcap files.

Automatically Learns Networks Detects and configures routing for the actual discovered networks.

Enable and Disable Routing Use the router as a diagnostic tool to monitor traffic without routing traffic.

VAV Airflow Balancing Use with an Internet browser as an airflow balancing tool for BAC-8000 and BAC-9000 series VAV controllers.

AFMS Configuration Use the router to set up an Airflow Measurement System (AFMS).

Zone Configuration Use the router to set up a BAC-120063CW-ZEC zoning Flexstat.

SPECIFICATIONS

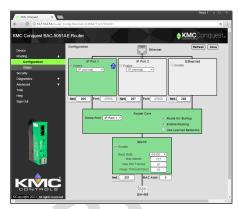
Configuration Tools

Normal configuration from internally served browser pages. Requires HTML5-compliant versions of Microsoft Internet Explorer, Chrome, or Firefox.

MODEL







Router network configuration

Routing Protocols

- One MS/TP network
- One BACnet Ethernet
- Two IP ports that can be set up for any of the following protocols:
 - Normal BACnet IP network routing
 - BACnet broadcast management device with network and port address translation
 - Foreign device registration with BACnet broadcast management devices (BBMD)
 - PAD (packet assembling/disassembling) routing

DESCRIPTION	MODEL
BACnet router	BAC-5051AE

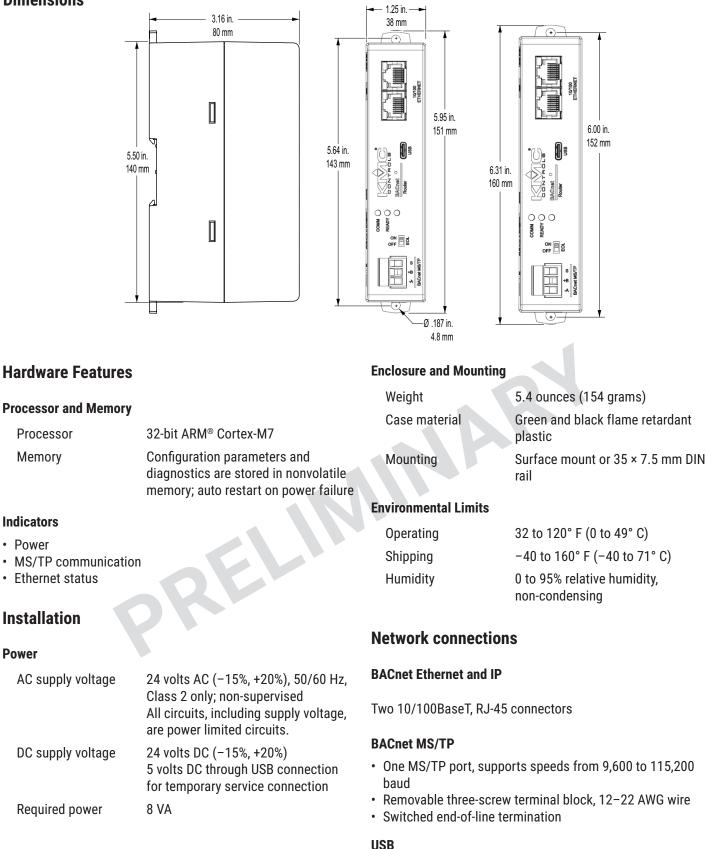
SPECIFICATIONS

Dimensions

Indicators

Power

Power



USB-C connection for power and communication to use as a service tool.

Timekeeping

The router is a BACnet time master device that can maintain time with or without an SNTP server. Time messages can be broadcast daily, weekly, or monthly to all or selected networks. Time messages are formatted as UTC, local, or both.

Agency and Regulatory Approvals

DTI	Danding
BTL	Pending
UL	UL 916 Energy Management Equipment
RoHS	RoHS compliant
CE	Pending
FCC	FCC Class A, Part 15, Subpart B and complies with Canadian ICES-003 Class A*

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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Bouting	Status					Enable	Routing 🖌	 Administration 	tefresh
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Legend	Status	Destination	et	Next	Router	Time	Idle Time		
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	Sole Master Active	2500	N/A N/A	Directly Connected Directly Connected	Not Applicable Not Applicable	00:02:12	00:00:00	Select Routes	
		_			Not Applicable	00:02:15			
	Active	11891	N/A	Directly Connected			00:00:02	Select Routes	
	Active Active	11891 205	N/A N/A	Directly Connected 11891	Not Applicable 10.110.2.204:47801	00:02:15	00:00:02 00:01:33	Select Routes Select	
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BACnet routing status

ACCESSORIES

KMD-5567	MS/TP network surge suppressor
XEE-6111-050	50 VA, single-hub transformer
XEE-6112-050	50 VA, dual-hub transformer
HPO-5551	Conquest router tech cable kit Includes USB, Ethernet, and MS/TP to NetSensor cables
HSO-9001	Ethernet patch cable, 50 feet
HSO-9011	Ethernet patch cable, 50 feet, plenum rated

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← → C ① 10.110.6.14/diagnost	ics.html?sid=0.7897768122922622	☆ :				
KMC Conquest BAC-5051,	AE Router	onquest"				
Device Routing ▼ Security	Diagnostics "Stop when full" freezes the capture when frame buffer is full.					
Diagnostics	MS/TP Token Use					
Device Status Token Use Metrics MS/TP Capture	Stop when full	Clear				
Ping Advanced V	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30					
Time	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50					
Help Sign Out	st c2 c3 c4 c5 c6 c7 c5 c5 c7 c1 c2 c3 c4 c5 c6 c7 c5 c5 c7 c1 c2 c3 c4 c5 c6 c7 c5 c5 c7 c1 c2 c3 c4 c5 c6 c7 c5 c5 c7 c5 c5 c7 c5 c5 c7 c5 c5 c5 c7 c5 c5 c7 c5 c5 c7 c5 c5 c7 c5 c5 c5 c7 c5 c5 c5 c7 c5 c5 c5 c5 c7 c5 c5 <th></th>					
CONTROLS	Green < 100 ms, Vision - 1 000 ms, VADO Timosof, Her > APOD Timosof, Her > Pol for Master Blac = Roder MAC 2.1 Total Devices (including router) 119 Avg Token Cycle time (ms) 5 Avg Token Cycle time (ms) 2.1 Highest MAC Discovered 12.7 Max Master in Use					

MS/TP network diagnostics

SUPPORT

Additional resources for installation, configuration, application, operation, programming, upgrading and much more are available on the web at **www.kmccontrols.com**. To see all available files, log-in to the KMC Partners site.