

Conquest BAC-5051E

BACnet Router

DESCRIPTION

The KMC Controls BAC-5051E is a multi-port BACnet router. This compact router is powerful enough for heavy network traffic and small enough to use as a control technician's service tool. Router highlights include:

- · Easy installation
- · Simple configuration from internally served web pages
- · Internal network diagnostics and route status reports.

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

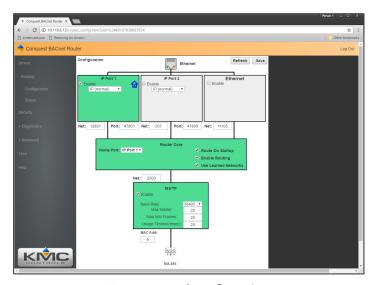
Browser Configuration Configure the BAC-5051E using only an Internet browser. No special software to learn or load.

Flexible Mounting Two mounting choices for permanent installations–DIN rails 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.

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.



Router network configuration

MADE IN USA

SPECIFICATIONS

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

Configuration Tools

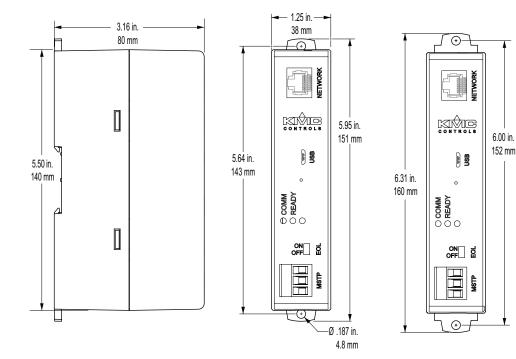
Normal configuration from internally served browser pages. Requires HTML5 compliant versions of Microsoft Internet Explorer, Chrome, or Firefox.

MODFL

DESCRIPTION	MODEL
BACnet router	BAC-5051E

SPECIFICATIONS

Dimensions



Hardware Features

Processor and Memory

32-bit ARM® Cortex-M4 Processor

Configuration parameters and Memory

diagnostics are stored in nonvolatile

memory; auto restart on power failure

Indicators

- Power
- MS/TP communication
- · Ethernet status

Installation

Power

24 volts AC (-15%, +20%), 50/60 Hz, AC supply voltage

Class 2 only; non-supervised

All circuits, including supply voltage,

are power limited circuits.

8 VA Required power

Enclosure and Mounting

5.3 ounces (149 grams) Weight

Case material Green and black flame retardant

plastic

Mounting Surface mount or 35 x 7.5 mm DIN

rail

Environmental Limits

Operating 32 to 120° F (0 to 49° C) Shipping -40 to 160° F (-40 to 71° C) Humidity 0 to 95% relative humidity,

non-condensing

Network connections

BACnet Ethernet and IP

10/100BaseT, RJ-45 connector

BACnet MS/TP

- · One MS/TP port, supports speeds up to 115,200 baud
- Removable three-screw terminal block, 12-22 AWG wire
- · Switched end-of-line termination

USB

USB micro B 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

BTL	Listed as meeting	the BACnet Testing
DIL	Listed as intettint	I THE DATHEL LESTING

Laboratory profile B-RTR.

UL 916 Energy Management

Equipment

RoHS RoHS compliant (pending)

CE CE compliant

FCC FCC Class A, Part 15, Subpart B and

complies with Canadian ICES-003

Class A*

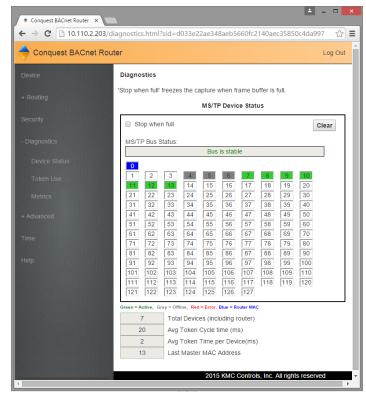
*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



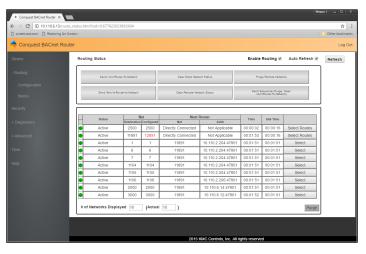








MS/TP network diagnostics



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
HP0-5551	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

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.

