

Babel Buster 3
MODEL MX-73-V2C
NETWORK GATEWAY



CONTROL SOLUTIONS MINNESOTA

BACnet IP to MS/TP Router plus SNMP v2 Gateway



Control Solutions' Babel Buster MX-73-V2C is an enhanced BACnet router and gateway with advanced features to support connecting BACnet IP and MS/TP to SNMP v1 and v2c.

The MX-73-V2C as a BACnet Router will route IP to MS/TP and vice versa via its local ports, and supports full router capability for multi-hop internetworks including via NAT WAN routers. Routing is simple to set up. Routing can be used without any other gateway features enabled.

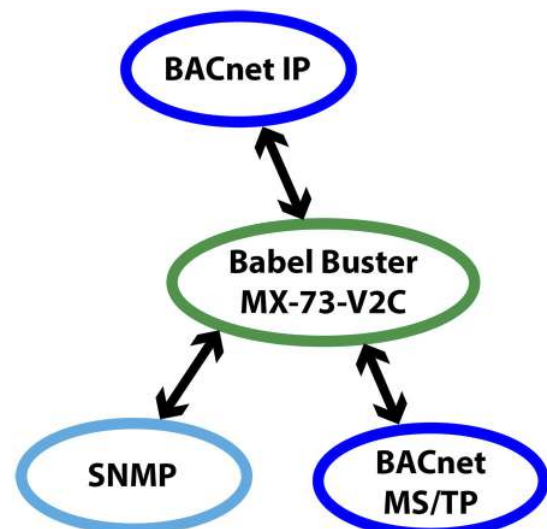
The MX-73-V2C as a BACnet Client/Server Gateway will poll BACnet IP and/or BACnet MS/TP slaves or servers, and retain copies of selected object properties. Upstream clients may then query the MX-73-V2C to receive data originating from multiple devices.

The MX-73-V2C includes an SNMP client that can read and write MIB variables in other SNMP devices. When reading, the remote device's data will be stored in a local object. When writing, data will be taken from a local object and sent to the remote SNMP device via SNMP Set.

The MX-73-V2C includes an automatic table walker with multiple algorithms making it suitable for walking the sparse alarm table found in UPS systems implementing RFC 1628. The table walker can easily translate the alarm table into a series of BACnet objects for easy access by a BMS.

The MX-73-V2C includes a trap receiver supporting both v1 and v2c traps. The template driven trap receiver provides multiple algorithms for recognizing traps, and can easily place trap information into BACnet objects.

The MX-73-V2C is itself an SNMP device. Local BACnet objects can be assigned to either of the branches of the local MIB for remote access by other SNMP clients. The local data may be accessed as scaled integer or 32-bit floating point (RFC 6340). An SNMP Get to the MX-73-V2C will read local objects and an SNMP Set will write the local objects. If local objects are mapped via BACnet to write to other BACnet devices, then SNMP Set will result in writing to a BACnet device. The MX-73-V2C can send v1 or v2c traps based on threshold rules created via templates in the MX-73-V2C's web UI.



Babel Buster 3

MODEL MX-73-V2C
NETWORK GATEWAY



CONTROL SOLUTIONS MINNESOTA

Built-In Secure Web Server for Configuration and Diagnostics



FEATURES

- BACnet IP to MS/TP Router
- Slave proxy to support MS/TP slave-only devices
- Client/Server gateway for remapping BACnet objects
- Read/Write any standard BACnet objects as a Gateway
 - Up to 5,000 objects
 - Analog, Binary, Multi-State object types
 - Input, Output, Value objects
- BBMD, COV support
- SNMP v1, v2c Get/Set access to all data points
- SNMP v1, v2c table walker
- SNMP v1, v2c trap receiver
- SNMP v1, v2c trap generation, user programmable criteria
- Up to 1,000 MIB variables
- Direct import of CSV files for faster point mapping
- Commandable BACnet objects implement priority array
- Hardened EIA-485 transceiver for BACnet MS/TP
- 10/100BaseT Ethernet for BACnet IP and SNMP
- Includes "10X" file capacity
- Powered by 10-30VDC or 24VAC 50/60 Hz
- Power Consumption: 0.1A @ 24VDC
- Panel mount, 70mm H x 131mm W x 38mm D
- Pluggable screw terminal block for power & RTU network
- Operating temperature -20°C to +75°C
- Humidity 5% to 90% non-condensing
- FCC Class A, CE Mark

BACnet Protocol Implementation Conformance Statement (Abbreviated)

Date: 29 September 2021

Vendor Name: Control Solutions, Inc.

Product Name: Babel Buster Product Model Number: MX-73-V2C

Applications Software Version: 3.16.7 Firmware Revision: 3.16.7

Product Description: BACnet IP to MS/TP Router with SNMPv2 Gateway
BACnet Standardized Device Profile (Annex L):

- ▶ BACnet Application Specific Controller (B-ASC)
- ▶ BACnet Gateway (B-GW)
- ▶ BACnet Router (B-RTR)

List all BACnet Interoperability Building Blocks Supported (Annex K):
DS-RP-A, DS-RP-B, DS-RPM-B, DS-WP-A, DS-WP-B, DS-WPM-B, DS-COV-B,
DS-COVU-B, DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B,
DM-R-B, GW-EO-B, DM-SP-B, NM-RC-B, NM-BBMD-C, NM-FDR-A
Segmentation Capability: Request & response, window size 8

Standard Object Types Supported:

Object types: AI, AO, AV, BI, BO, BV, MSI, MSO, MSV, DEV (all static)
See additional documentation for optional & proprietary properties.

Data Link Layer Options:

- ▶ BACnet IP (Annex J)
- ▶ BACnet MS/TP master & slave (9600, 19200, 38400, 76800 baud)

Device Address Binding:

Is static device binding supported? Yes

Networking Options: ▶ Router, Clause 6, BACnet IP-MS/TP

- ▶ Annex H.1, Mapping Non-BACnet Networks onto BACnet Routers
- ▶ BACnet IP Broadcast Management Device (BBMD)
(Support registrations by Foreign Device: Yes)

Character Sets Supported: ANSI X3.4

If this product is a communication gateway, describe the types of non-BACnet
equipment/networks(s) that the gateway supports:
SNMP

Visit our web site for

- Full details
- User Guides & Software Downloads
- Pricing
- On-Line Ordering

www.csimmn.com



CONTROL SOLUTIONS MINNESOTA

PO BOX 10789

ST. PAUL, MN 55110-0789

VOICE (651) 426-4410 • FAX (651) 426-4418

TOLL FREE 1-800-872-8613

© 2021 Control Solutions, Inc. Babel Buster® is a registered trademark of Control Solutions, Inc. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.