Babel Buster 2
BACNET IP - MS/TP NETWORK GATEWAY
MODEL BB2-7030

CONTROL SOLUTIONS, INC.
MINNESOTA

Control Solutions' Babel Buster BB2-7030 is a BACnet router, slave proxy, and client/server gateway that allows remapping objects from multiple slaves into one master. You can use the BB2-7030 as just a router, just a slave proxy, just a client/server, or all three at the same time. The BB2-7030 also includes BBMD support.

The BB2-7030 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.

The BB2-7030 as a BACnet Slave Proxy will provide I-Am responses on behalf of devices that do not have I-Am support, or are slave-only devices. The slave proxy capability will allow systems to utilize dynamic address binding with devices that do not support dynamic binding.

The BB2-7030 as a BACnet Client/Server Gateway will poll BACnet IP and/or BACnet MS/TP slaves or servers, and retain copies of selected object Present Value properties. Upstream masters may then query the BB2-7030 to receive Present Value data originating from multiple devices.

The BB2-7030 product models also include either a Modbus TCP Client/Server or SNMP Client/Server. This allows interconnecting BACnet devices with Modbus TCP or SNMP devices and systems. SNMP v2c Traps may be generated based on BACnet MS/TP or BACnet IP data.

BACnet IP ↔ MS/TP
BACnet ↔ WAN ↔ BACnet
BACnet ↔ Modbus TCP
BACnet ↔ SNMP

FEATURES

- Read/Write any standard BACnet objects
    - 300 Input objects each of types AI, BI, MSI
    - 100 Output objects each of types AO, BO, MSO
    - 100 Value objects each of types AV, BV, MSV
- BACnet router IP to MS/TP
- Slave proxy for static address binding support
- Client/Server gateway for remapping device objects
- Commandable BACnet objects implement priority array
- Hardened EIA-485 transceiver for BACnet MS/TP
- 10/100BaseT Ethernet for BACnet IP
- Powered by 12-24V DC/AC 50/60 Hz
- Power Consumption: 0.15A @ 24VDC
- DIN rail mounting, 100mm H x 70mm W x 60mm D
- Pluggable screw terminal block for power & MS/TP network
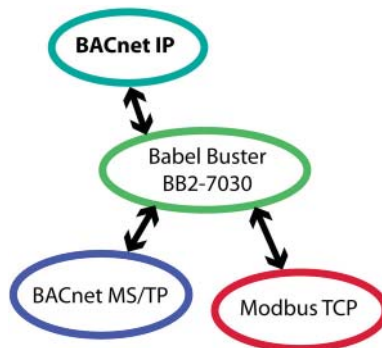- Operating temperature -40°C to +85°C; Humidity 5% to 90%

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Babel Buster 2
BACnet IP - MS/TP
Network Gateway
Model BB2-7030

Control Solutions, Inc.
Minnesota

Built–In Web Server
for Configuration and Diagnostics

Interconnect multiple
BACnet networks, plus...

● *Connect MS/TP or BACnet IP devices to Modbus TCP*

● *Connect Modbus TCP devices to MS/TP or BACnet IP*

Provides Connectivity
Between BACnet IP and MS/TP
and Modbus TCP or SNMP

● *Connect MS/TP or BACnet IP devices to SNMP*

● *Connect SNMP devices to MS/TP or BACnet IP*

BACnet Protocol Implementation Conformance Statement (Abbreviated)

Date: 15 June 2010
Vendor Name: Control Solutions, Inc.
Product Name: Babel Buster BB2-7030   *Product Model Number: BB2-7030*
Applications Software Version: 2.10   *Firmware Revision: 2.10*
BACnet Protocol Revision: 2

Product Description: BACnet router, slave proxy, and network gateway allowing data exchange between BACnet IP and BACnet MS/TP devices.

BACnet Standardized Device Profile (Annex L):
► *BACnet Smart Sensor (B-SS)*
► *BACnet Smart Actuator (B-SA)*

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-COVP-B, DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B, DM-R-B, NM-RC-B
Segmentation Capability: (None)

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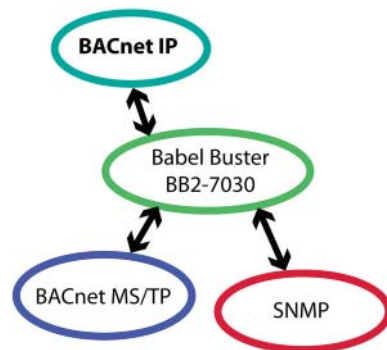► *Annex H.1, Mapping Non-BACnet Networks onto BACnet Routers*
► *BACnet IP Broadcast Management Device (BBMD)*
         (Support registrations by Foreign Device: Yes)

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:
Modbus TCP and SNMP v1, v2, v2c Traps