

*Babel Buster®
485XL*



CONTROL SOLUTIONS, INC.
MINNESOTA

*Put LonWorks devices on a
BACnet MS/TP network*



Control Solutions' Babel Buster 485XL is a BACnet MS/TP slave (server) device that functions as a LonWorks polling device. Each of 155 BACnet objects maps to up to 155 LonWorks network variables. LonWorks structured SNVT's may be parsed to multiple BACnet objects when reading. Multiple BACnet objects may be packed into a single SNVT structure when writing. All LonWorks Standard Network Variable Types are supported. Output functions are implemented with commandable Analog Value or Binary Value objects. The writeable input objects can also write to LonWorks NV's when placed "out of service".

The Babel Buster 485XL is intended to connect LonWorks devices to a BACnet MS/TP network. As such, the 485XL expects to be the network manager on the LonWorks side. It should not be connected to a managed LonWorks network. It will do all management needed on the LonWorks network (and would interfere with any other LonWorks network management tool). Devices' domain table entries will be set to put the LonWorks devices on the same domain as the 485XL. Network variables are polled and explicitly updated, and do not require or support binding.

Babel Buster 485XL Object Summary

- *100 Writeable Analog Input Objects*
- *5 Commandable Analog Value Objects*
- *40 Writeable Binary Input Objects*
- *10 Commandable Binary Value Objects*

BACnet MS/TP EIA-485 supports 9600, 19200, 38400 and 76800 baud. LonWorks supports TP/FT-10 Free Topology network interfaces.

Visit our web site for

- *Full details*
- *User Guides & Software Downloads*
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651-426-4410 · 800-872-8613

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Read/Write any
LonWorks Network Variable
as a BACnet Property Value

FEATURES

- Read/Write LonWorks Network Variables via BACnet objects
 - 100 Writeable Analog Input (AI) objects
 - 5 Commandable Analog Value (AV) objects
 - 40 Writeable Binary Input (BI) objects
 - 10 Commandable Binary Value (BV) objects
- BACnet slave polls LonWorks devices
- Bidirectional communication between BACnet and LonWorks
- Supports scalar or structured network variables
- Converts structured variables to multiple BACnet objects
- Commandable BACnet objects implement priority array
- EIA-485 transceiver on MS/TP
- TP/FT-10 Free Topology transceiver on LonWorks
- Powered by 10-30VDC or 12-24VAC 50/60 Hz
- Power Consumption: 0.1A @ 24VDC
- DIN rail mounting, 100mm H x 70mm W x 60mm D
- Pluggable screw terminal block for power & networks
- Operating temperature -40°C to +85°C; Humidity 5% to 90%
- FCC Class A, CE Mark

BACnet Protocol Implementation Conformance Statement (Abbreviated)

Date: 11 Nov 2007

Vendor Name: Control Solutions, Inc.

Product Name: Babel Buster 485XL

Product Model Number: BB485XL

Applications Software Version: 1.01

Firmware Revision: 1.01

BACnet Protocol Revision: 2

Product Description: Network gateway allowing LonWorks TP/FT-10 devices to be accessed via BACnet MS/TP as a BACnet slave.

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-B, DS-RPM-B, DS-WP-B, DW-WPM-B,
DM-DDB-B, DM-DOB-B, DM-RD-B

Segmentation Capability: (None)

Standard Object Types Supported:

Object types: AI, AV, BI, BV, DEV (all static)

See additional documentation for optional & proprietary properties.

Data Link Layer Options:

- ▶ MS/TP slave (Clause 9), baud rate(s): 9600, 19200, 38400, 76800

Device Address Binding:

Is static device binding supported? No

Networking Options: (None)

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:

LonWorks TP/FT-10 Neuron Chip based devices.

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CONTROL SOLUTIONS, INC.

2179 FOURTH ST., STE. 2-D • PO BOX 10789

WHITE BEAR LAKE, MN 55110-0789

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

TOLL FREE 1-800-872-8613

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