

# Babel Buster® IP/XL



CONTROL SOLUTIONS, INC.  
MINNESOTA

*Put LonWorks devices on a  
BACnet IP network*



*Control Solutions' Babel Buster IP/XL* is a BACnet IP slave (server) device that functions as a LonWorks device manager. A large number of BACnet objects gives you flexibility in mapping LonWorks Network Variables to any combination of BACnet objects. NV Structures may be parsed to multiple BACnet objects when reading. Multiple BACnet objects may be packed into a single structured variable when writing. All standard SNVT's are supported.

Objects mapped to Network Variable Outputs (NVO) will poll their assigned variable at the interval you specify. Network Variable Inputs (NVI) are written each time the mapped BACnet object is written. BACnet input objects correspond to NVO's on the LonWorks device. BACnet output objects correspond to NVI's on the LonWorks device. BACnet value objects may be mapped to NVI's for writing without priorities.

Configuration of the IP/XL is done via the embedded web interface. You can upload an XIF file to define the LonWorks device, or in many cases, import the file from the device itself.

## *Babel Buster IP/XL Object Summary*

- 300 Analog Input Objects
- 100 Analog Output Objects, Commandable
- 100 Analog Value Objects
  
- 300 Binary Input Objects
- 100 Binary Output Objects, Commandable
- 100 Binary Value Objects
  
- 300 Multi-State Input Objects
- 100 Multi-State Output Objects, Commandable
- 100 Multi-State Value Objects

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## Built-In Web Server for Configuration and Diagnostics



Read/Write any standard LonWorks SNVT  
as a BACnet Property Value

### FEATURES

- Read/Write any standard LonWorks SNVT via 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 slave polls unbound LonWorks network variables
- Bidirectional communication between BACnet and LonWorks
- Manages NV structures as multiple BACnet objects
- Maps up to 1000 network variables (total, all devices)
- Manages up to 50 LonWorks devices
- Commandable BACnet objects implement priority array
- TP/FT-10A transceiver for LonWorks
- 10/100BaseT Ethernet for BACnet IP
- 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 & RTU network
- Operating temperature -40°C to +85°C; Humidity 5% to 90%

#### BACnet Protocol Implementation Conformance Statement (Abbreviated)

Date: 11 April 2008

Vendor Name: Control Solutions, Inc.

Product Name: Babel Buster IP/XL

Product Model Number: BBIPXL

Applications Software Version: 1.01

Firmware Revision: 1.01

BACnet Protocol Revision: 2

Product Description: Network gateway allowing LonWorks TP/FT-10A devices to be accessed via BACnet IP 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, DS-COV-B, DS-COVP-B,  
DM-DDB-B, DM-DOB-B, DM-RD-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)

#### 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-10A devices with up to 62 network variables.

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