



# CONTROL SOLUTIONS, INC.



## Bridges & Gateways Worth Remembering



### Babel Buster

Put Modbus devices on a LonWorks network.

Put LonWorks devices on a Modbus network.

- Modbus/TCP
- RS-485
- RS-232
- TP/FT-10

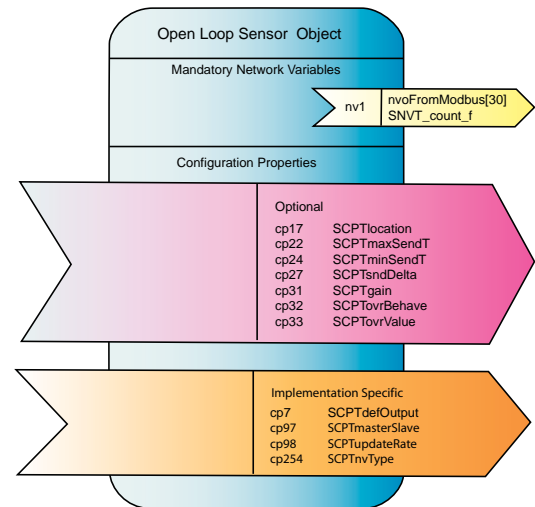
LonMark Certified Gateway implements Modbus Object Server

### Control Solutions' Babel Busters

are autonomous object servers, not just simple protocol translators. Each data object is implemented as a fully featured LonMark sensor or actuator functional block. This means Modbus devices can become completely compatible with any LonWorks network. It also means LonWorks devices can become compatible with a Modbus network.

The serial gateways, Babel Buster 485 and Babel Buster 232, use the serial Modbus RTU protocol and can be configured as either a master or a slave. The Ethernet gateway, Babel Buster 10/100, and Babel Buster WiFi, use the Modbus/TCP protocol. These can be configured as client or server (network version of master or slave), and can operate as both client and server at the same time.

Babel Buster is configured as a Modbus master to make one or more Modbus devices accessible on a LonWorks network. Babel Buster is configured as a Modbus slave to make one or more LonWorks devices accessible on a Modbus network.



Visit our web site for

- Full details
- User Manuals
- XIF files
- Pricing
- On-line Ordering



## www.csimn.com

651-426-4410 • 800-872-8613



## Babel Buster LonWorks® to Modbus Universal Gateway



- LonWorks TP/FT-10 (FTT-10A) to Modbus RS-485 Gateway
- Modbus standard RJ-45 connector, RS-485 pin-out
- LED indicators for LonWorks & Modbus status
- FCC Class B, CE Mark



- LonWorks TP/FT-10 (FTT-10A) to Modbus RS-232 Gateway
- Modbus standard RJ-45 connector, RS-232 pin-out
- LED indicators for LonWorks & Modbus status
- FCC Class B, CE Mark



- LonWorks TP/FT-10 (FTT-10A) to Modbus/TCP Gateway
- Auto-sensing 10BaseT/100BaseT Ethernet
- 10BaseT/100BaseT standard RJ-45 connector
- LED indicators for LonWorks, Modbus & Ethernet link status
- FCC Class A, CE Mark

Translates any Modbus register to any supported LonMark SNVT variable and vice versa

### FEATURES COMMON TO ALL MODELS

- Translate 58 LonWorks network variables to Modbus registers
- LonMark Ver. 3.3 Sensor & Actuator Functional Profiles
- Supports Modbus “coils”, input registers, and holding registers
- Single or double Modbus registers, signed, unsigned, IEEE 754
- All scalar LonMark SNVT types supported
- SNVT\_switch & SNVT\_state also supported
- SNVT types dynamically assignable via LonMaker
- Modbus register mapping dynamically mappable via LonMaker
- Modbus registers may be scaled (x10, x100, x0.1, x0.01, etc.)
- Min/max send time, send on delta configurable per point
- Modbus (master) polling interval configurable per point
- Object override supported on point by point basis
- Bidirectional communication between LonWorks and Modbus
- LonMark certified, version 3.3
- 3150L Neuron® Chip, 48K Flash memory, 10K RAM
- TP/FT-10 (FTT-10A) transceiver
- 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 & LonWorks network
- Operating temperature -40°C to +85°C; Humidity 5% to 90%

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