

Babel Buster BB2-6010-Web Modbus to Cloud Gateway



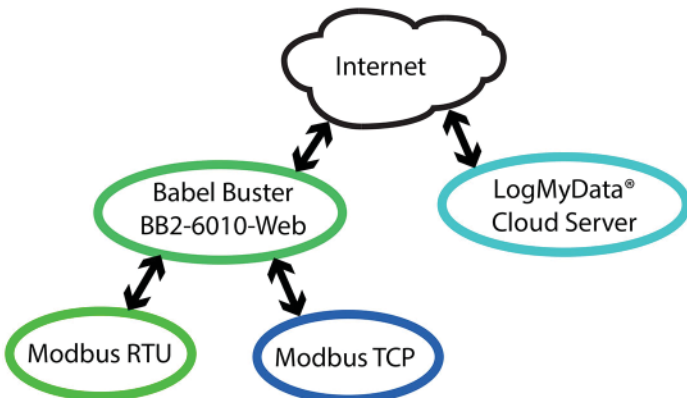
Control Solutions' Babel Buster BB2-6010-Web is a special purpose Modbus gateway used to gather information from Modbus devices and send that data to a server such as the LogMyData® Cloud. The web portal completes the overall mission by logging data for historical analysis and generating notifications of alarms sent to users via email, text message, or voice calls.

The BB2-6010-Web can operate as Modbus RTU master or slave, and Modbus TCP client and server. Up to 400 data objects can be configured as boolean, 16-bit or 32-bit integer, or IEEE 754 floating point. Each data object can be mapped to read any standard Modbus register from a Modbus slave when operating as master. As master, the BB2-6010-Web can address up to 240 RTU slaves, or 20 TCP devices. When operating as slave, any of the data objects can be accessed by other Modbus masters (RTU or TCP) as any type of Modbus register.

Each data object can have single or dual level alarm thresholds assigned. Alarms can optionally have hysteresis and minimum times associated with them. Upon being triggered, the alarm will report immediately to the web portal for notification of users.

The BB2-6010-Web also includes Script Basic built in allowing user programmed applications to operate locally within the device. The user programs may be used for local data analysis and processing, or supervisory control. Script Basic can read and write any of the data objects in the system, and therefore Script Basic can, under program control, generate alarm notifications.

Modbus RTU can be disabled, allowing the communications port to be entirely under control of Script Basic. This allows the BB2-6010-Web to be used to communicate with proprietary serial devices, providing all of the data logging and alarm notification capabilities otherwise associated with Modbus RTU. Modbus TCP remains active when the serial port is used for proprietary serial communication.



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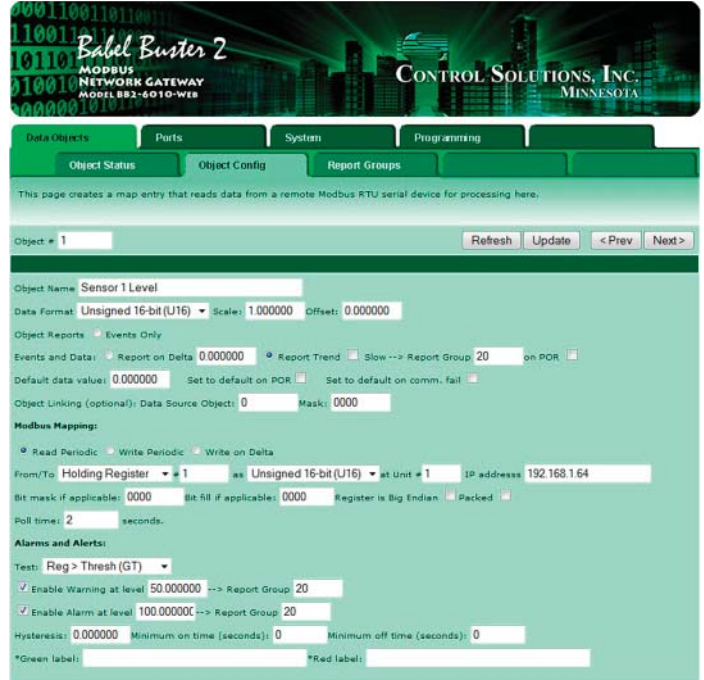


Includes Built-In Web Server
for Pre-Configuration and Diagnostics



FEATURES

- Integral web client for reporting data and alarms
- Modbus RTU RS-485 Master or Slave
- Modbus TCP Client and Server
- Modbus TCP over Ethernet 10/100BaseT
- 400 configurable data objects
- Data type support for boolean 16/32-bit integer, floating point
- Alarms configurable per data object, single or dual level
- Report on change, report trends, report periodic
- Script Basic programming built in for user application program
- Supports Modbus “coils”, input registers, holding registers
- Single or double Modbus registers, signed, unsigned, IEEE 754
- Modbus register mapping configured via web interface
- Modbus registers may be scaled using slope/intercept method
- Modbus (master) polling interval configurable per point
- Configure via web pages or web portal
- Flash file system with XML configuration files
- Online help
- Password protection for web log-on and ftp
- Field upgradeable firmware upload via ftp
- DHCP or static IP address
- Hardened EIA-485 transceiver for Modbus RTU
- 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% non-condensing
- FCC Class A, CE Mark
- Listed to UL 916 and (Canadian) C22.2 No. 205-M1983



Pre-configuration of the gateway is done via the web pages served by the internal web server. The user simply fills in templates. The entire configuration is saved in the internal Flash file system in XML format. This file may be exported to upload to the web portal. Once the BB2-6010-Web is online “live”, configuration is done remotely via the web portal.

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