

## BMS Automation Protocol Converter



BMS Converter is an external Building and Industrial Automation multi-protocol device server for OEMs wanting to provide protocol translation between Serial-Serial, Serial-Ethernet and Ethernet- Ethernet devices using Lon Works®, BACnet, MetasysN2, Modbus and more.

The Converter includes all the hardware and software to enable the customer's products to interface to various networks. Each BACnet Converter is provided with the necessary protocol drivers. Multiple drivers can be installed on a single converter.

### Features/Benefits

- ✓ Use Field Server BTL approved Modules
- ✓ The most flexible and versatile multi-protocol Device Server in the market.
- ✓ Supports virtual nodes allowing multiple OEM controllers to connect to a single Converter and seen as separate controllers on the various field networks.
- ✓ TRUE protocol translation and not Protocol packet Encapsulation.
- ✓ Multi-Client and Multi-Server support ensures inter operability between any Industrial and or Building Automation protocols.
- ✓ Flash upgradeable.
- ✓ Configuration is done using a '.csv' file.
- ✓ Support HTTPS and DHCP Client
- ✓ BACnet data types supported : AI, AV, AO, BI, BV, BO, MI, MV, MO, LSP, Device

### Specifications

Serial Port	: 1no. RS485, 2Wire / 4 wire, 5 pin in GW BMS01, GW BMS02 and GW BMS05
Serial Port	: 2no. RS485, 2Wire in GW BMS 01 01 and GW BMS 02 02
	: 3 Pin Screw type terminals.
Ethernet Port	: 1. 10/100 Ethernet port
Connector	: RJ45

<b>Indications</b>	: LED's for Tx, Rx, Power
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<b>Power</b>	: 24V AC/DC, Range18 to 72V DC.100mA@24V DC. Range ± 10% for 24V AC
Connector	: 3 Pin Screw type

### Environmental

Operating Temp	: -40°C to 85°C
Relative Humidity	: 5-90% RH, non-condensing

### Enclosure

Dimensions	: 46 x 70 x 111mm (L x W x H), GW BMS 01, 02 & 05
	: 46.5 x 84.5 x 106.5mm, GW BMS 01-02, 02-02-R and 04
	: 50 x 101 x 105 mm (GW BMS 03)

Mounting	: DIN Rail
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### Supported Protocols

<b>RS485</b>
Modbus RTU
Allen Bradley DF1
BACnet MS/TP
MetasysN2
LON

<b>Ethernet (10/100Base-T)</b>
Allen Bradley Ethernet/IP
BACnet IP
BACnet Ethernet
Modbus TCP/IP, SNMP, XML
DNP3 Ethernet...

### Ordering Information

Model no	Protocol	Protocol
GW BMS 01	Modbus RTU	BACnet IP
GW BMS 01-02	Modbus RTU 2*RS485 Ports	BACnet IP
GW BMS 02	BACnet MSTP	BACnet IP/ Modbus TCP / Ethernet IP
GW BMS 02-02	BACnet MSTP 2*RS485 ports	BACnet IP / Modbus TCP
GW BMS 03	LON Works	BACnet IP / Modbus RTU / Modbus TCP
GW BMS 04-A	Modbus RTU / BACnet MSTP	MetasysN2
GW BMS 04-B	MetasysN2	BACnet IP
GW BMS 04-B-02	MetasysN2 2*RS485 Ports	BACnet IP
GW BMS 04-D	BACnet MSTP	Modbus RTU
GW BMS 05-A	BACnet IP	Modbus TCP
GW BMS 05-B	SNMP	BACnet IP/ Modbus TCP
GW BMS 05-C	SNMP	Modbus RTU/BACnet MSTP
GW BMS 05-D	Modbus RTU / Modbus TCP / BACnet IP	Ethernet IP
GW BMS 05-E	DNP3 Ethernet	Modbus TCP
GW BMS 05 F	Ethernet IP	SNMP

### NOTE:

1. 32 devices can be multi dropped on the Modbus RTU/BACnet MSTP/N2side.
2. Depending on site conditions this figure may increase or decrease.
3. 485 Repeater may have to be used in between the 485 chain to meet basic 485 criteria's.
4. Max1200 points are supported in GW BMS01, GW BMS02 and GW BMS05.
5. Default 1500 points are supported in GW BMS 02-02R, GW BMS 04.
6. The point count can be upgraded to 5000 and 10000 respectively at additional cost.
7. Default 1500 points are supported in GW BMS 03. The point count can be upgraded to 4096.
8. Configuration through web browser is supported in GW BMS01-02, GW BMS02-02R and GW BMS04.

### Application Diagram

