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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

- ✓ 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.

Specifications

SERIALPORT	: 1no. RS485, 2Wire / 4 wire, 5 pin in GW BMS01, GW BMS02 and GW BMS05
SERIALPORT	: 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
Indications	: LED's for Tx, Rx, Power
Power	: 24V AC/DC, Range18 to 72V DC.100mA@24V
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

Supported Protocols

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

Ethernet (10/100Base-T)
Allen Bradley Ethernet/IP
BACnet IP
BACnet Ethernet
Modbus TCP/IP, SNMP, XML
DNP3 Ethernet…

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Ordering Information

MODELNO	PROTOCOLS	
GW BMS01	Modbus RTU	BACnet IP
GW BMS01-02	Modbus RTU 2 RS485 Ports	BACnet IP
GW BMS02	BACnet MSTP	BACnet IP/ Modbus TCP / Ethernet IP
GW BMS02-02	BACnet MSTP 2 RS485 ports	BACnet IP / Modbus TCP
GW BMS03	Lon Works	BACnet IP / Modbus RTU / Modbus TCP
GW BMS04-A	Modbus RTU /BACnet MSTP	MetasysN2
GW BMS04-B	MetasysN2	BACnet IP
GW BMS04-B-02	MetasysN2 2 RS485 Ports	BACnet IP
GW BMS04-D	BACnet MSTP	Modbus RTU
GW BMS05-A	BACnet IP	Modbus TCP
GW BMS05-B	SNMP	BACnet IP/ Modbus TCP
GW BMS05-C	SNMP	Modbus RTU/BACnet MSTP
GW BMS05-D	ModbusTCP/BACnetIP	Ethernet IP
GW BMS05-E	DNP3 Ethernet	Modbus TCP

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