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**SAN TELEQUIP**

Connecting. Converting. Leading !

## 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 cconverter.

## Features/Benefits

1. The most flexible and versatile multi-protocol Device Server in the market.
2. Supports virtual nodes allowing multiple OEM controllers to connect to a single Converter and seen as separate controllers on the various field networks.
3. TRUE protocol translation and not Protocol packet Encapsulation.
4. Multi-Client and Multi-Server support ensures inter operability between any Industrial and or Building Automation protocols.
5. 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<br>2 RS485 Ports | BACnet IP |
| GW BMS02 | BACnet MSTP | BACnet IP/ Modbus TCP / Ethernet IP |
| GW BMS02-02R<br>BACnet ROUTER | BACnet MSTP<br>2 RS485 ports | BACnet IP |
| 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<br>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