

Description

APC-BZ converters are developed to create a bridge between BACnet based devices and Modbus based BMS systems. APC-BZ converter fetches data from various BACnet based controllers. APC-BZ converter acts as a Modbus slave to BMS based Modbus master and stores values in register map. On request, APC-BZ converter transfers register values to the master.

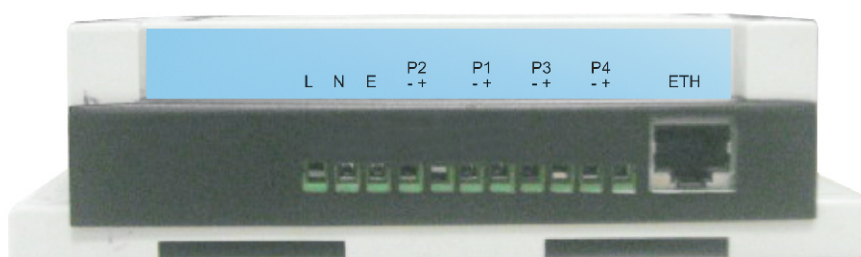
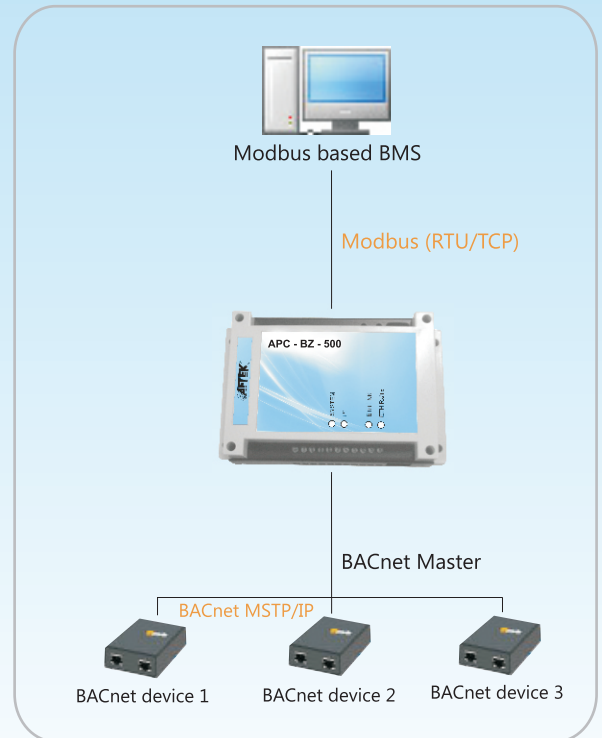


Key Features

- ✓ Read/Write any BACnet objects via Modbus/TCP or Modbus RTU
- ✓ High speed and performance
- ✓ Bidirectional communication
- ✓ Manages multiple BACnet devices
- ✓ Easy to use configuration utility
- ✓ Multiple RS-485 ports which allows more number of devices with different communications parameters

Hardware Specifications

Operating Voltage Range	90 - 270V AC
LED Indication	UART activity, Ethernet activity, CPU health status
Power Consumption	~1.5W
Dimensions	90mm (W) x 145mm (L) x 40mm (H)
Mounting	Wall mountable / DIN rail
Connector Type	Terminal block 5.08 mm pitch
serial ports	Up to 4 RS-485 ports(2 wire)
Ethernet Connectivity	10/100 BaseT Ethernet



BACnet Details

Conformance Class

Class Support
Class 4

Functional Groups

Functional Groups
Event initiation
Event response

Standard Application Services

Service Type	Execute / Initiate
Read property	Execute
Read property multiple	Execute
Write property	Execute
Write property multiple	Execute
Who has	Execute
I have	Initiate
Who is	Execute
I am	Initiate

Standard Object Types

BACnet Object Type
Analog input object
Analog output object
Analog value object
Binary input object
Binary output object
Binary value object
Device object

Data Link Layer Option

Link Layer Support
BACnet on IP / BACnet MSTP

Modbus Details

Function Codes (Slave Mode)

Function Codes
Read coil status
Read input status
Read holding registers
Read input registers
Preset single register
Preset multiple register
Preset single coils

Register types (Slave Mode)

Function Codes
Coil
Input
Holding
Input status

Modbus/RTU (Slave Mode)

Ports	1 port
Connection Type	RS-485 (two wire, half duplex)
Baud Rates	9600, 19200, 38400, 57600, 115200
Data Bits	7, 8
Stop Bits	1, 2
Parity	Odd, Even, None
Multidrop Capability	Yes

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