

## Description

APC-LX-500 protocol converter is developed to create a bridge between LONWORKS<sup>®</sup> based devices and BACnet / Modbus based BMS systems. APC-LX-500 fetches data from various LONWORKS<sup>®</sup> based devices. APC-LX-500 acts as a Modbus slave / BACnet device to BMS



## Interfaces

### Serial Interface

<b>Connection Type</b>	RS-232 / RS-485
<b>Baud Rates</b>	110, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
<b>Data Bits</b>	7, 8
<b>Stop Bits</b>	1, 2
<b>Parity</b>	Odd, Even, None
<b>Multidrop Capability</b>	No

### Modbus/RTU (Slave Mode)

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

### BACnet/IP

<b>Connection Type</b>	Internet Protocol (IP)
<b>Ethernet Speeds Supported</b>	10 Base-T, 100 Base-T

### LONWORKS<sup>®</sup>

<b>Physical Medium</b>	FTT - 10A twisted pair
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## Hardware Specifications

<b>Operating Voltage Range</b>	90 - 270V AC
<b>Interface Connector</b>	RS-485 : Barrier connector RS-232: DB9 male Ethernet: RJ45 LONPORT: TP/FT-10, FTT 10A AC cord for power supply
<b>Indication</b>	Power, Run, System Error Configuration Error Ethernet: Link connectivity & status LON TX / RX activity RS 485 / RS 232 TX / RX activity LONWORKS service port
<b>Compliant</b>	IEC 61000-4-4, Level 4
<b>Power Consumption</b>	2.5W
<b>Dimensions</b>	215mm (W) x 120mm (L) x 50mm (H)
<b>Mounting</b>	Screw-able

## BACnet Details

### Conformance Class

Class Support
Class 4

## LONWORKS® Details

UNVT or SNVT variable support
Explicit (Polled Mode) or Implicit (Bound Mode)

## 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

## Character Sets

Character Sets
ANSI

## 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

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