EKI-1242BNMS EKI-1242IBNMS

Modbus RTU/TCP to BACnet IP/MSTP **Fieldbus Gateway**



Features

- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and BACnet IP/MSTP communication
- Modbus Master mode supports 64 connections
- · Mounts on DIN-rail and Wall mount
- Designed for protocol extensibility and adaption
- Built-in real time diagnostic to increase highly efficiency of device
- 'I' models support a wide operating temperature



Introduction

The EKI-1242BNMS Industrial Fieldbus gateway provides seamless communication between Fieldbus and Industrial Ethernet and supports different protocol devices integrating new and existing Modbus RTU/TCP devices with BACnet IP/MSTP networks. EKI-1242BNMS is a simple and cost-effective way to bring the advantage of fast I/O data transfers between devices.

Specifications

Ethernet Communication

Protocols BACnet IP, Modbus TCP

Number of Ports

10/100 Mbps, Auto MDI/MDIX Speed

Connector 8-pin RJ45

 Protection Built-in 1.5 KV magnetic isolation

Serial Communications

Port Type RS-232/422/485, software selectable

· No. of Ports

 Protocol BACnet MSTP, Modbus RTU

 Port Connector DB9 male 5, 6, 7, 8 Data Bits Stop Bits 1, 1.5, 2

None, Odd, Even, Space, Mark Parity Flow Control XON/XOFF, RTS/CTS Baud Rate 50 bps ~ 921.6 kbps

 Serial Signals RS-232: TxD. RxD. CTS. RTS. DCD. RI. GND RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-485: Data+, Data-, GND

Software

Modbus RTU/TCP

Mode

Functions Support 1, 2, 3, 4, 5, 6, 15, 16 Max. Number of Connections 64 connections

BACnet IP/MSTP

BACnet IP/Slave, BACnet MSTP/Master

Support objects AI, AO, BI, BO Max object instance 200 objects each type

General

 LED Indicators System: Power, System Status, Protocol status

LAN: Speed, Link/Active, Error Reboot Trigger Built-in WDT (watchdog timer) MicroSD Card Configuration backup and restore

Mechanics

Dimensions (W x H x D) 42 x 140 x 95 mm (1.66" x 5.52" x 3.75") Enclosure Metal with solid mounting hardware

Mounting DIN-rail, Wall Weight 0.497 Kg

Power Requirements

Power Input 24 V_{AC}, redundant dual inputs

Power Connector Terminal block **Power Consumption**

Environment

• Operating Temperature $-10 \sim 60 \,^{\circ}\text{C} \, (14 \sim 140 \,^{\circ}\text{F})$

' I' models: -40 ~ 75 °C (-40 ~ 167 °F) Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F)

 Operating Humidity 10 ~ 95% RH

Regulatory Approvals

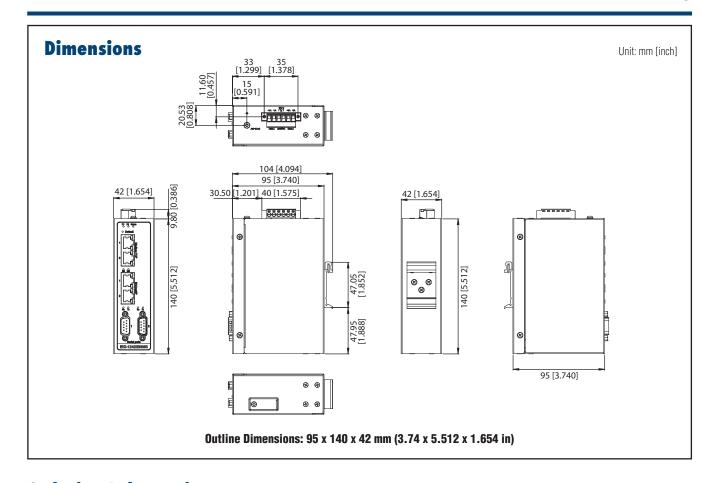
EMC CE, FCC Part 15 Subpart B (Class A)

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Ordering Information

- EKI-1242BNMS
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- Modbus RTU/TCP to BACnet Fieldbus Gateway Modbus RTU/TCP to BACnet Fieldbus Gateway with wide operating temperature

