IETWORK

RLE TECHNOLOGIES PROTOCOL COVERTER

RAPTOR PROTOCOL CONVERTER



DESCRIPTION

The RLE Raptor Protocol Converter connects directly to equipment and converts the SNMP, BACnet, and Modbus protocols to one or more of these same protocols for integration into a building management system (BMS) or network management system (NMS). The Protocol Converter is ideal for situations where data from monitored equipment is incompatible with the protocols used by the BMS or NMS, such as in cases where legacy monitoring systems are present. The ability of the Protocol Converter to accept up to 1,024 inputs over 32 modules means flexible integration with multiple alarm and management systems with the use of one simple devicey. In addition, the Dual Port Protocol Converter provides a cost-effective means to connect to multiple trunk lines with two additional Modbus EIA-485 ports.



- Multiple input and output protocols
- Monitor up to 1,024 Modbus registers, OIDs, or
- Connect up to 32 units/modules/nodes
- Connect to multiple trunk lines with Dual Port Protocol
- Alarm notification through email, SNMP
- Web configuration











FDS-PC-DP

SPECIFICATIONS

Supply Voltage 24 VAC/VDC @ 600mA max, 50/60 Hz **Communication Ports Ethernet** 10/100BaseT, RJ45 connector; 500VAC

RMS isolation

EIA-232 DB9 female connector; 9600 baud; No parity, 8 data bits, 1 stop bit

EIA-485 1200, 2400, 9600 or 19200 baud (selectable); Parity: none, even or odd, 8

data bits, 1 stop bit

Protocol

TCP/IP; HTML, TFTP

SNMPV1: V2C MIB-2 compliant; NMS Manageable

with Get

Modbus (EIA-485) Modbus Master/Slave; RTU mode;

Supports Master codes 01, 02, 03, 04;

Slave code 03

Modbus TCP/IP Modbus Master/Slave; TCP/IP

transmission protocol

BACNet/IP ASHRAE STD 135-2004 Annex J: Port

3 on Dual Port Protocol Converter is BACnet MS/TP capable (Slave only) Supports Client Authentication (plain and

login); compatible with ESMTP Servers

Terminal Emulation (EIA-232)

VT100 compatible (for configuration and

diagnostics only)

Indicator

SMTP (email)

1 Green/Red LED: Link/No Link; 1 Green Network

Active (additional LEDs for Dual Port

Protocol Converter)

EIA-485 Status 2 Green Transmit and Receive LEDs

(additional LEDs for Dual Port Protocol

Converter)

Security Login

Warranty

Web Browser Access (Ethernet)

1 Web password Read Only; 1 Web

password Read/Write

Terminal Emulation Access

Protocols In SNMP, Modbus EIA-485, Modbus TCP/IP,

BACnet/IP

None

Protocols Out SNMP, Modbus EIA-485, Modbus TCP/IP,

BACnet/IP; BACnet MS/TP (Port 3 of Dual

Port Protocol Converter only)

Max Number of Units/Modules/Nodes

32

Max Number of Registers/OIDSs/Instances

1024

Operating Temperature 32° to 122°F (0° to 50°C) **Operating Humidity** 5-95% RH non-condensing Mounting Desktop or rack mount (brackets

included)

Dimensions 9.8"W x 5.3"D x 1.8"H (248 x 135 x 46 mm) Weight 2.32 lb. (1.05Kg)

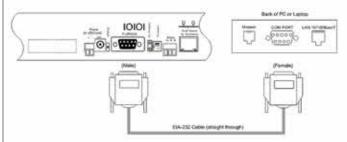
CE; ETL listed: conforms to UL 61010-1, **Approvals**

EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

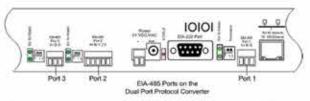
1 year

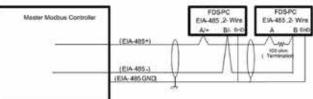
EIA-232 COM Connection

Connect the straight through, 9-pin, serial cable:

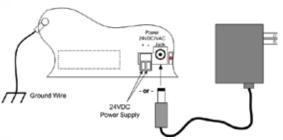


Modbus EIA-485 Connections

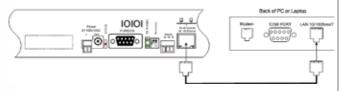




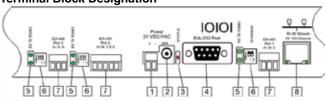
Power Supply and Ground Connections



RJ45 Ethernet Connection



Terminal Block Designation



Terminal Block Designation		
Item No.	Item	Description
1	Power 24 VDC/VAC	Power Terminal Block
2	Jack	Power connector for wall wart adapter
3	Status	Status LED
4	EIA-232 Port	DB9 Female connector
5	RX TX EIA-485 LED	Receive/Transmit status LED. Dual Port Protocol Converter contains two additional sets of LEDs.
6	EIA-485 Termination Switch	Dual Port Protocol Converter contains two additional sets of switches; EIA-485 Port 2, the 5-pin port, can be configured as a 2-wire (half-duplex) or 4-wire (full-duplex) connection. Ports 1 and 3: Switch 1 - unused; Switch 2 - On = 100 Ohm terminationPort 2: Switch 1 - Duplex (On = 4-wire; Off = 2-wire); Switch 2 - On = 100 Ohm termination
7	EIA-485 Port	Dual Port Protocol Converter contains two additional EIA-485 ports. Port2 (the middle port) can be configured as a 2-wire or 4-wire connection. In addition to all other supported protocols, Port 3 (the left most port) of the Dual Port Protocol Converter is BACnet MS/TP capable (Slave only).
8	RJ45 Ethernet Port	10/100 BaseT connector

ORDERING INFORMATION

MODEL DESCRIPTION

FDS-PC Protocol converter for BMS and NMS integration, Single port FDS-PC-DP Protocol converter for BMS and NMS integration, Dual port