Robust Data Comm

Making Industrial Data Flow Like Water ... Safely, Silently, & Sanely

Co. & GST Reg. No: 19-9600 372-Z

ISO 9001 : 2000 Cert.No. : 1582

Model: rdc485Enet

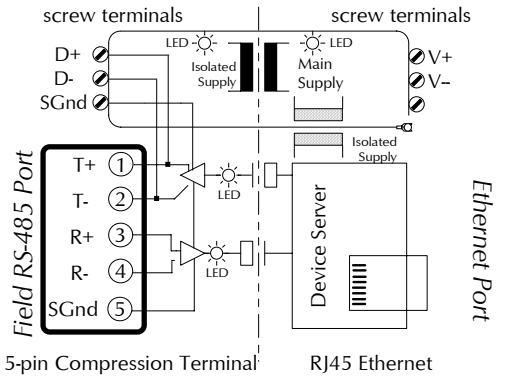
RS-485 to Ethernet Converter (Device Server)

Isolated Device Server rdc485Enet

The rdc485Enet safely and easily connects an industrial device with serial interface (RS-485, 2 or 4-wire) to an Ethernet network while providing the ultimate in isolation, surge, and noise protection. The RS-485 port and network port are isolated from each other as well as the DC supply ground. 600w transient suppressor diodes further protect the RS-485 port from momentary surges. Standard industrial automation protocols like Modbus/TCP is also supported.

Isolation, industrial design, small size, DIN rail mount, user indication, and wide range DC supply make the rdc485Enet a very engineer-friendly device for your industrial data communication system.

Block Diagram



Order Information

rdc485Enet - [ ] - [ ] - [ ] - [ ]

Term Resistor Value

- nnn — Custom value
- **[ ] — 120 Ohms**

Connector Configuration

- **dr — D-sub RS-485, RJ45 for Ethernet**
- cr — C-term RS-485, RJ45 Ethernet

Galvanic Isolation Configuration

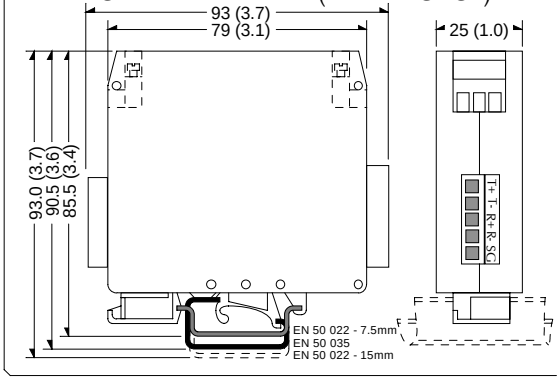
- **2p — 2-port, Ethernet port grnd = supply grnd**
- 3p — 3-port, RS485, Ethernet and Supply fully isolated

Power Supply Configuration

- 5v — 5v ±5% Regulated DC Supply
- **dv — 9v to 36v Unregulated DC Supply (12v & 24v)**
- hv — 38v to 58v Unregulated DC Supply (±48v)

Boxes in **BOLD** indicate factory default options

Dimensions in mm (and inches)



Specification

Network Interface

Standards	: TCP/IP, UDP/IP, DHCP, SNMP, SSL/TLS HTTP, SMTP, ICMP, IGMP and ARP
Interface	: 10/100Base-T Ethernet
Connector	: RJ45
User Indications	: Network Link and Activity indication

Serial Interface

Interface	: EIA/RS-485A
Connector	: 5-pin compression terminal block
Data Rate	: Up to 230,400 bps (configurable)
Characters	: Configurable (5,6,7,8 databits)
Parity	: Configurable (odd,even,none,mark,space)
Stop Bits	: Configurable (1,2 bits)
User Indications	: Txd and Rxd Indication

Isolation

RS-485 to Ethernet	: complete galvanic isolation 2.5Kv
Supply to Ethernet	: complete galvanic isolation 2.5Kv
Supply to RS-485	: complete galvanic isolation 2.5Kv

Power Supply

9~36 vDC	: 2.5w normal operation
5vDC +/-5%	: 400mA normal operation
User Indication	: Green LEDs for power indication

Mechanical / Environment

Operating Range	: -20C to +65C
Storage Range	: -40c to +100C
Relative Humidity	: 10 to 90% RH, non-condensing
Terminals	: 5-pin, wire up to 2.5mm (12AWG)
Case Material	: nylon polymide, fungus and termite resistant self-extinguishing
Weight	: approx 130g
Mounting Rail	: DIN EN 50 022 or DIN EN 50 035

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(version 1.0) *Specifications subject to change without notice.*

www.robustdc.com

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