

ETHERNET COMMUNICATIONS

INTRODUCTION

The new generation of REYROLLE relays support the DNP3, MODBUS and IEC60870-5-103 communications protocols. If Ethernet versions of DNP3 or MODBUS are required an external device can be connected to the RS485 port on the relays to provide an Ethernet interface. One Ethernet interface can handle up to 32 relays connected via one RS485 loop.

The preferred Ethernet interface device is the Ruggedcom RMC30 which can be configured as a dedicated MODBUS server, DNP3 server or a simple Ethernet tunnel. It is housed in a compact enclosure suitable for DIN rail mounting and is compliant with substation environmental standards.

An alternative device for use with MODBUS is available from LANTRONIX, XPRESS DR. This is also of compact design with DIN rail mounting facility.

Both devices require configuration using a pc based software tool.

Both types of interface devices have been fully tested with REYROLLE relays against the protocol reference.

TECHNICAL DATA

For complete technical data refer to manufacturers data sheet.

Ruggedcom RMC30 Data sheet available directly from

[RUGGEDCOM - RuggedMC™ RMC30](#)

Serial Interface: RS485 Screw connector

Network Interface: RJ45

Indication: Power, Faulty and Active

Lantronix XPRESS DR Data sheet available directly from

[Xpress-DR - Industrial Ethernet Device Server](#)

Serial Interface: RS485 Screw connector or RJ45

Network Interface: RJ45

Indication: Ready, Faulty and Active

TECHNICAL DOCUMENTATION

Technical Guidance Notes are available at the website

www.REYROLLE-protection.com

to assist the user to make a successful installation of the relays and the interface.

For Information on the DNP3 and MODBUS protocol implementation in the REYROLLE Relays please refer to the Communication section of the Relay Technical Manual.



ORDERING INFORMATION

The orders for converters shall be placed directly on the manufacturers of the converters.

Ruggedcom (DNP3 and MODBUS):

RMC30-48

48V DC Power Supply (Range 36-59V DC)

Alternative power supply ranges are available on ordering by replacing last two digits of ordering code:

24 = 24V DC (18-36VDC)

HI = 88-300V DC or 85-264VAC

Lantronix (MODBUS Only):

XSDRIN-02 / DSTni-Xpress DR-IAP

9 to 30VDC/9-24VAC

Qualifications

Siemens Protection Devices Limited operates a quality system accredited to ISO9001.

CE Compliant to relevant EU Directives.

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December 2007