



Automation Products



EASUN REYROLLE

Catalogue

Selection Guide

Product Range

Serial Converters

Model	Description
ER 05	RS232 to RS485 / RS422 Converter
ER 10	RS232 to Fibre-Optic Converter
ER 20	Dual RS232 to Fibre-Optic Converter
ER 21A	RS232 / RS485 to Fibre-Optic Converter
ER 50	Fibre Optic Hub

IP Converter

ER 100	Serial to Ethernet Converter
ER 200	Modbus Ethernet to Modbus Serial Protocol Converter

Substation Gateways

ER 500 Series	Substation Interface Unit
ER 1000 Series	Station Controller / RTU / Gateway

Serial Converters

ER 05

RS232 to RS485 / RS422 Converter

Features & Benefits

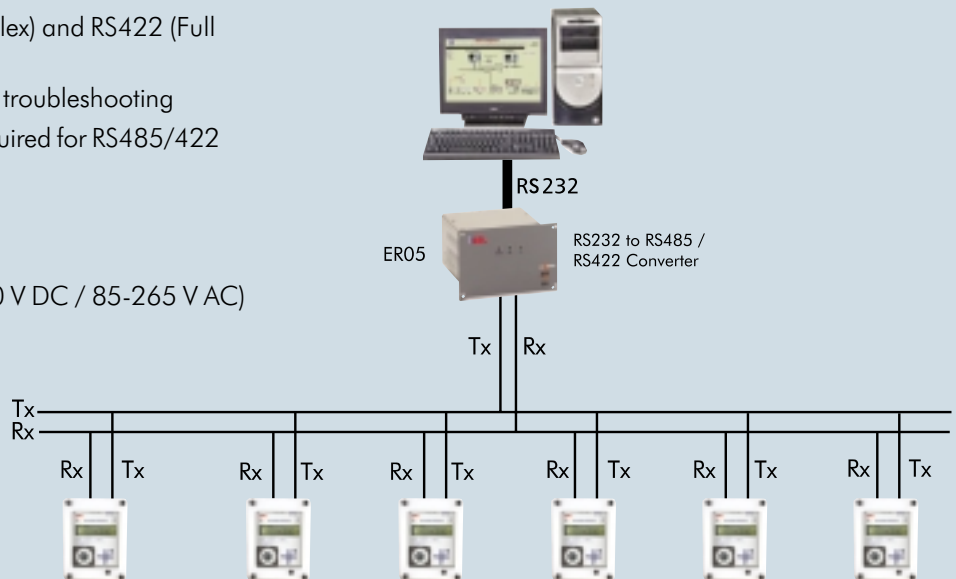
- Bi-directional RS232 to RS485/422 converter
- Suitable for both RS485 (Half Duplex) and RS422 (Full Duplex) modes of communication
- Power and data flow indication for troubleshooting
- No external flow control signal required for RS485/422
- 2KV DC isolation protection
- Speeds up to 115.2 kbps
- Flush mounting
- Wide input voltage range (24-110 V DC / 85-265 V AC)

Typical Application

Operators-Cum-Engineers
Work Station



ER 05



RS485 Multidrop Network

ER 10 RS232 to Fibre-Optic Converter



Features & Benefits

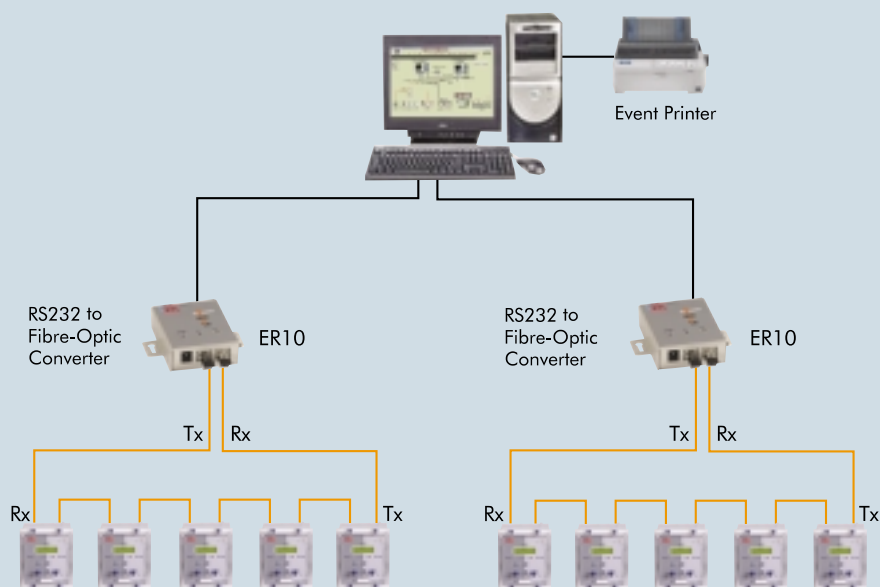
- Bi-directional Fibre-Optic to RS232 Converter
- Suitable for Fibre-Optic distance upto 1.6 Km
- Auxiliary power supply, 9-12 V DC@500mA (230 V AC/9-12 V DC adapter supplied)
- LED indications for Tx, Rx & Power on
- Operates for baud rates ranging from 1200 bps to 115.2 kbps
- Panel mounting



ER 10

Typical Application

Operators-Cum-Engineers Work Station



Fibre-Optic Ring Network

ER 20

Dual RS232 to Fibre-Optic Converter

Features & Benefits

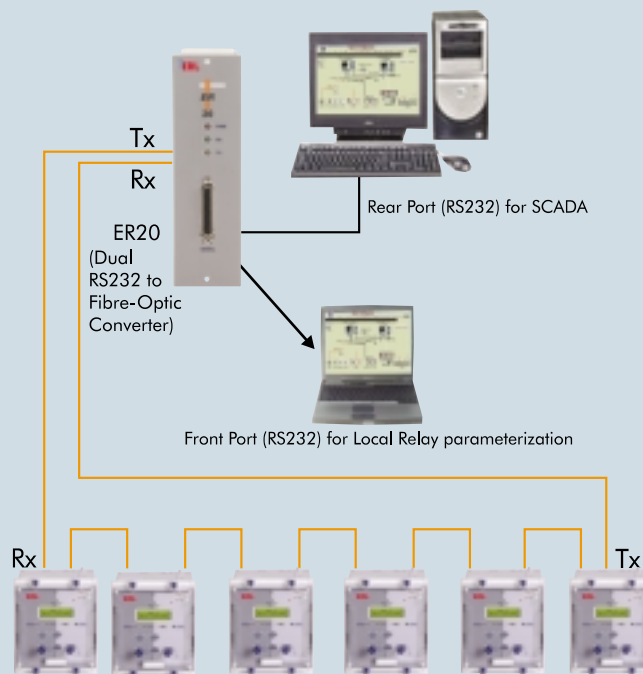
- Bi-directional Fibre-Optic to dual RS232 Converter
- Rear Fibre-Optic port for relay communication
- Rear RS232 port for permanent SCADA communication
- Front RS232 port with over-ride access by PC for local interrogation
- Auxiliary power supply 9-12 V DC@500mA (230 V AC/9-12 V DC adapter supplied)
- Operates for baud rates ranging from 1200 bps to 115.2 kbps
- LED indications for Tx, Rx & Power on
- Flush mounting



ER 20

Typical Application

Operators-Cum-Engineers Work Station



Fibre-Optic Ring Network

ER 21A

RS232 / RS485 to Fibre-Optic Converter

Features & Benefits

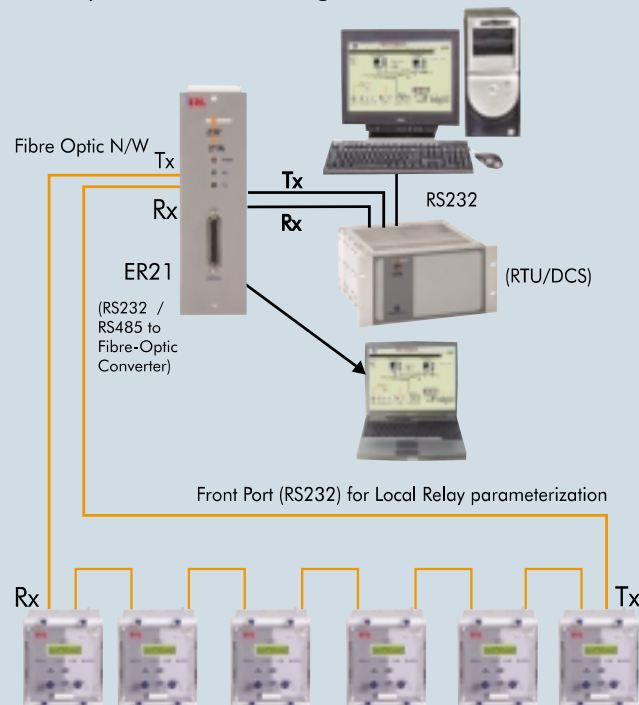
- Bi-directional RS232 / RS485 to Fibre-Optic Converter
- One RS485 port for rear permanent connection and one RS232 front port with automatic switchover for local interrogation
- Suitable for Fibre-Optic distances up to 1.6 km
- Auxiliary power supply 48 to 220V DC and 230V AC
- Operates for baud rates ranging from 1200 bps to 115.2 kbps
- LED indications for Tx, Rx, and Power on
- Flush mounting



ER 21A

Typical Application

Operators-Cum-Engineers Work Station



Fibre-Optic Ring Network

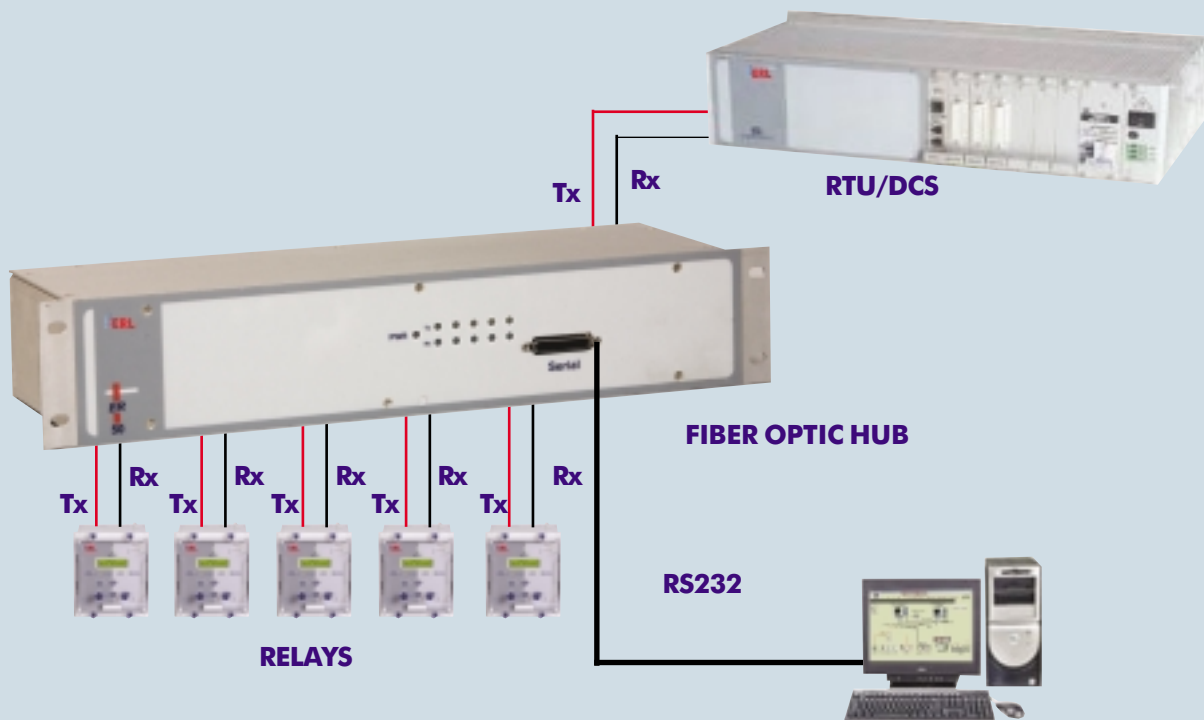
ER 50 Fibre Optic Hub

Features & Benefits

- 5/10/15 combinational Fiber Optic Ports for making star connection with the slaves One Pair of Mastic Fiber Optic Ports for the communication with the SCADA and one Front Panel RS232 for local Interrogation
- Auxilliary Power supply external 85-265 VAC/DC
- LED indications for Tx, Rx, and PWR ON
- 2U Flush mounted
- Operated ofr baud rates ranging form 1200 bps to 15.2 kbps
- Suitable for Fiber Optic distances upto 1.2 km



ER 50



Fiber Optic Star Network

IP Converters

ER 100 Serial to Ethernet Controller



Features & Benefits

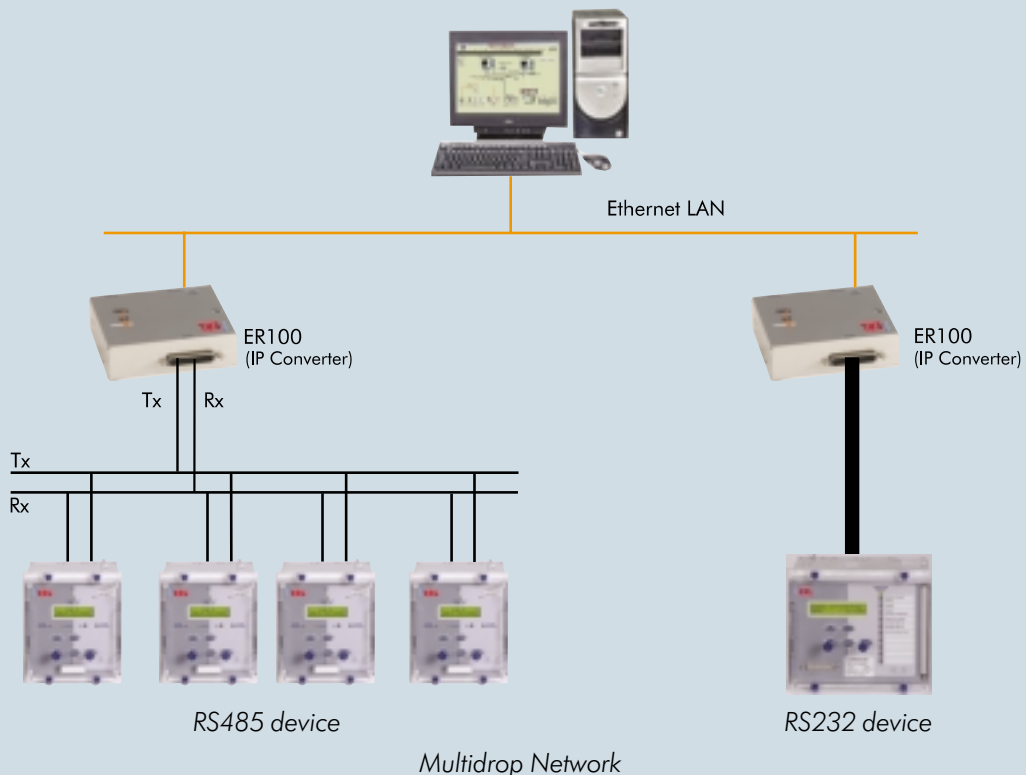
- Compatible with TCP/IP, telnet, ICMP Protocols
- Support any asynchronous serial device data, with or without parity, requiring Ethernet access Network Interface
- RJ45 (10Base-T) Ethernet
- Serial interface (RS232 / RS485)
- Baud rates ranging from 1200 bps to 115.2 kbps
- RTS, CTS mode controls
- Software XON/XOFF flow control
- Easy-to-use Windows utility software for configuration over Telnet
- LED Indications for Good Link, Act and Power on
- Power supply internal, 9-12 V DC @ 500mA (tip +ve) (230 V AC/9-12 V DC adapter supplied)



ER 100

Typical Application

Operators-Cum-Engineers Work Station



ER 200

Modbus Ethernet to Modbus Serial Protocol Converter

Features & Benefits

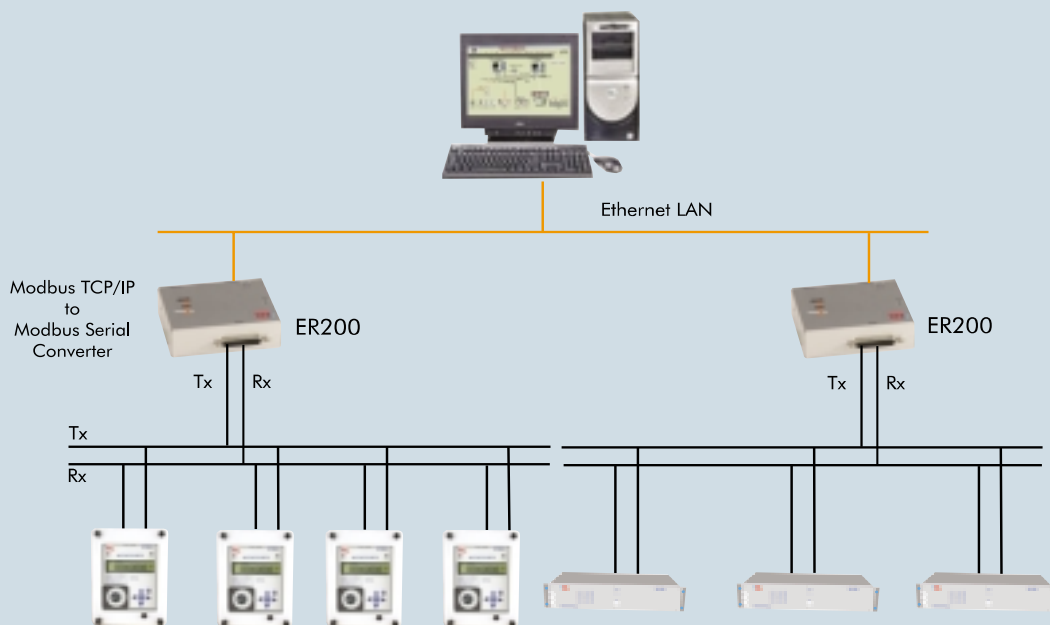
- Supports Modbus TCP to Modbus serial protocol conversion
- Easy to use Windows utility software for configuration
- Software selectable for RS232 or RS485 ports
- Baud rates ranging from 1200 to 115.2 kbps
- Connects one RS232 or up to 32 RS485 slave devices on serial side



ER 200

Typical Application

Operators-Cum-Engineers Work Station



ER500

Substation Gateways

ER 500 Series Substation Interface Unit

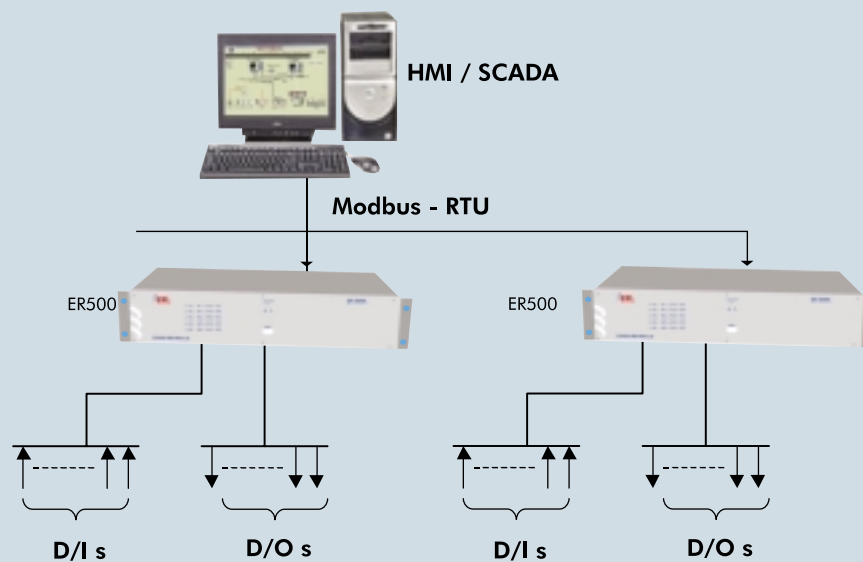


Features & Benefits

- Designed for substation application
- Communication with master station on Modbus RTU (Serial / TCP / FP)
- Easy configuration over telnet
- Maximum of 24 digital Inputs / Outputs or combination of same
- LED indication for each input channel
- Auxilliary power supply 80-265V AC/DC
- Immune to EMI / EMC and high voltage transient
- Self-check and watch dog available
- Standard 19" rack mounting



Typical Application



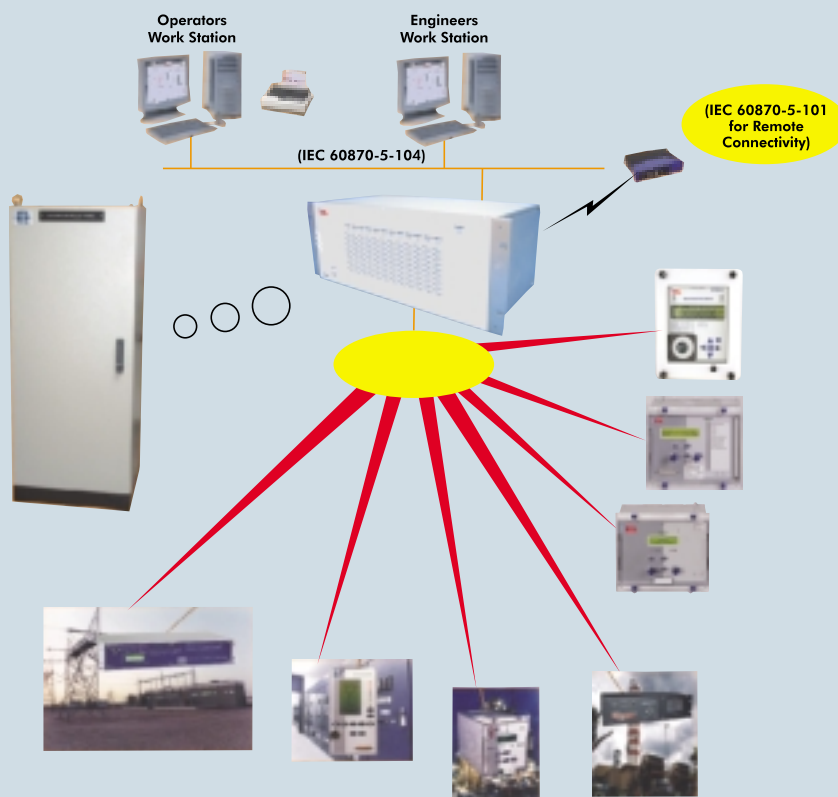
ER 1000 Series Station Controller / RTU

Features & Benefits

- 32-bit high performance CPU
- On board serial I/Os (RS232 and RS485)
- Add on serial I/Os (RS232 and RS485)
- Add on parallel I/Os (DI, DO, AI, etc)
- Equipped with Real-Time Operating System
- Standard PLC Programming Tool
- Equipped with various industrial protocol stacks both at Bay level and Station level
- Highly modular in design
- Support for standard IEC 870-5 Modular protocol suite
- EMI, EMC Compatible



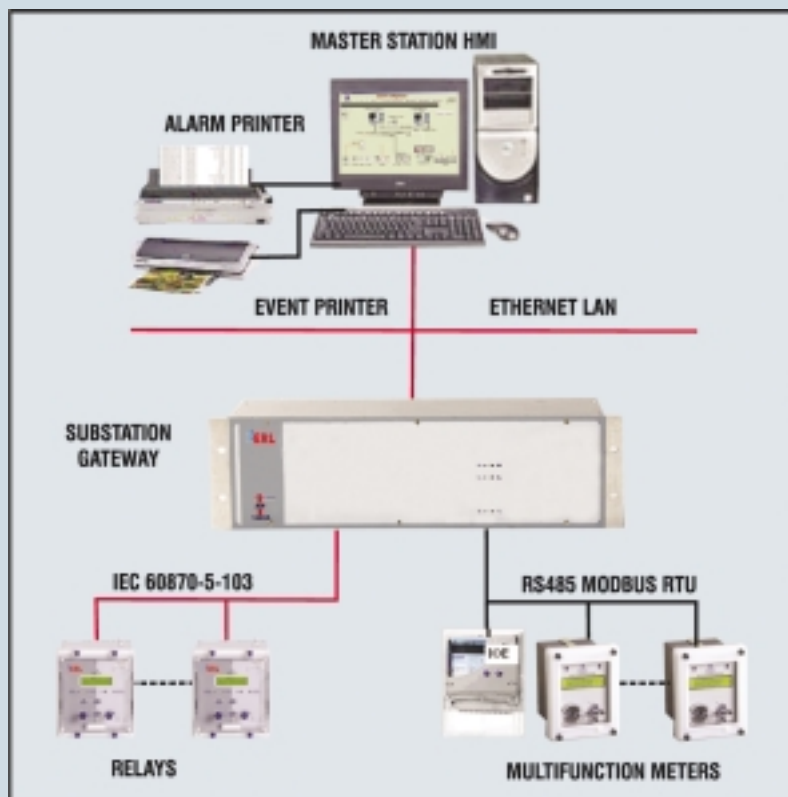
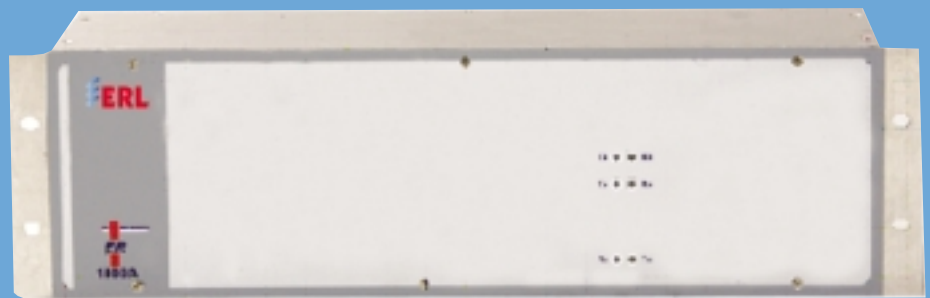
Typical Architecture



ER 1000 Series Substation Gateway

Features

- SOE (Sequence of Event Recorder) with 1 sec time stamping
- Supports Modbus serial to Modbus TCP protocol conversion
- Supports Baud rates ranging from 1.2 to 115.2 Kbps
- Easy to use Windows utility for configuration
- Suitable for a wide range of DC auxiliary supply
- Standard 19" rack mounting
- Immune to EMI/EMC and high voltage transient
- Integration with third party make meters on proprietary protocol using intelligent converters that avoids the need of different API 's at master station
- Auxiliary Supply: 48/110/220V DC



The policy of Easun Reyrolle is one of continuous improvement and development. The company therefore reserves the right to supply equipment, which may differ slightly from that described and illustrated in this publication.

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