e-SenZ ™

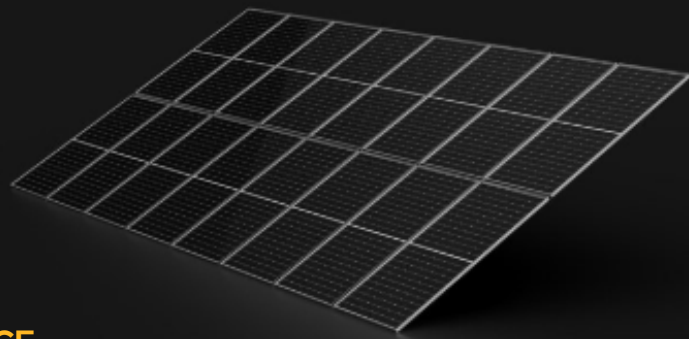# ESENZ INNOVATIONS PVT LTD

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SOLUTIONS WE OFFER

Data Loggers

PV_DG Sync

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OFC solutions

Weather sensors

Wireless –RS485

DATA SHEET
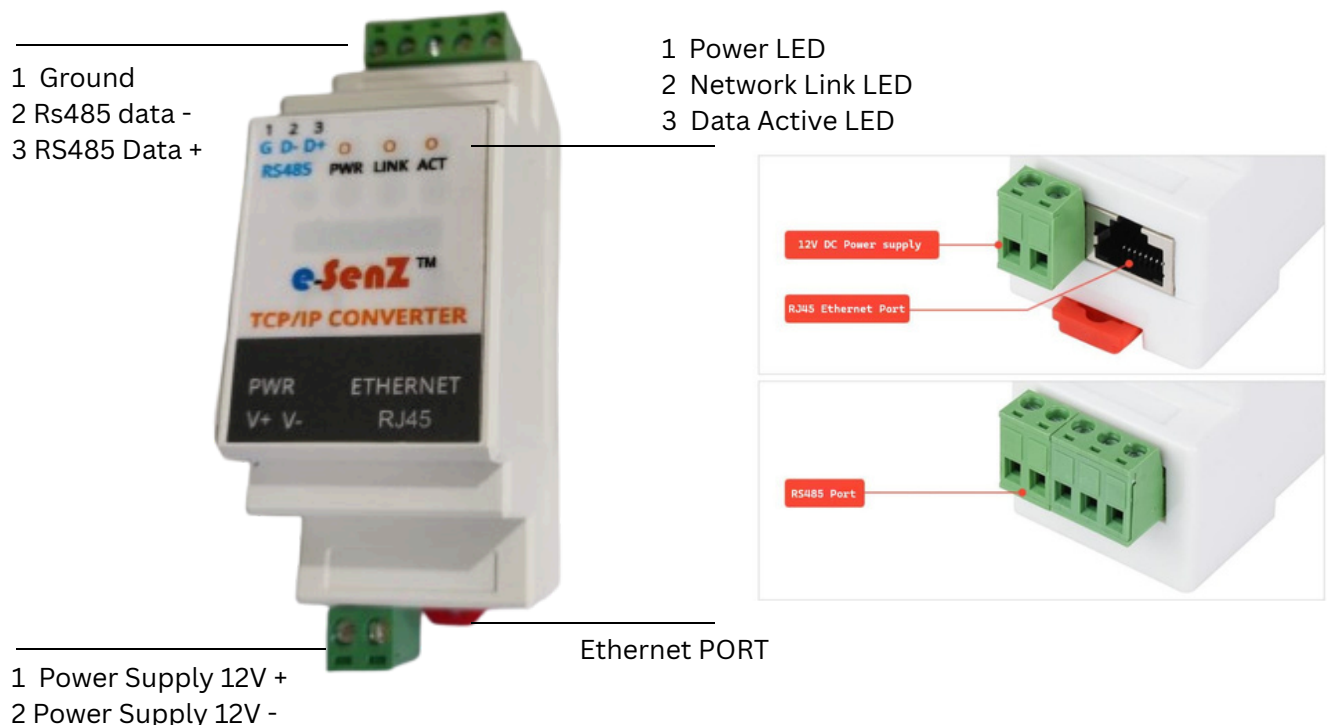
SIGNAL CONVERTER

TCP-IP TO RS485 CONVERTER

SIGNAL CONVERTER TCP-IP to RS485

The Esenz TCP/IP to RS485 Converter enables seamless communication between Ethernet-based systems and RS485 serial devices. It is ideal for industrial automation, energy monitoring, and remote device control applications

Features

- Converts Modbus TCP/IP to Modbus RTU over RS485
- Supports static IP and DHCP modes
- Up to 32 RS485 slave devices supported
- Built-in surge and ESD protection
- Compact DIN-rail mountable design
- LED indicators for power, Ethernet link, and RS485 activit

HARDWARE SPECIFICATIONS

1 Ground
2 Rs485 data -
3 RS485 Data +

1 Power LED
2 Network Link LED
3 Data Active LED

1 Power Supply 12V +
2 Power Supply 12V -

Ethernet PORT

12V DC Power supply

RJ45 Ethernet Port

RS485 Port

Parameter	Specification
Power Supply	12V DC / 1A (external adapter)
Ethernet Interface	RJ-45, 10/100 Mbps
Serial Interface	RS485, 2-wire
Protocol Support	Modbus TCP/IP, Modbus RTU
Baud Rate	9600 to 115200 bps (configurable)
Max Devices (RS485)	32
Operating Temperature	0°C to 50°C
Dimensions	91 × 91 × 37 mm
Mounting	DIN rail or panel mount

Wiring & Installation

Configuration

RS485 Connection
A → RS485+
B → RS485−
GND → Signal Ground (optional)

Ethernet Connection
Connect to router/switch using standard Cat5e/Cat6 cable
DHCP mode by default; static IP configurable via web interface

Access the device via its IP address using a browser. Default settings:
IP: 192.168.1.100
Subnet: 255.255.255.0
Gateway: 192.168.1.1

Login to the web interface to:
Set static IP or enable DHCP
Configure Modbus parameters
Monitor RS485 traffic

Troubleshooting

No Ethernet link: Check cable and switch/router port
No RS485 response: Verify baud rate and wiring polarity
Device not found: Use network scanner or reset to default IP