

MESR901

Industrial Modbus Ethernet to Serial Gateway

Features

- Ethernet enable Modbus RS-232/422/485
- Modbus TCP, ASCII & RTU
- Modbus flexibility – serial & Ethernet, Masters & slaves
- Modbus messaging priority control
- View messaging status in real time
- Easy configuration software
- UL Class 1 Division 2
- NEMA TS2



DESCRIPTION:

The MESR901 Modbus Gateways bridge devices on Modbus serial networks (RS-232, RS-422 or RS-485) with those on Modbus TCP networks, allowing seamless integration. Serial ports can be accessed over a LAN or WAN using Direct IP Mode connections. Supporting up to 16 masters and 32 slaves, these gateways feature autodetecting 10/100 copper and fiber optic options. Easy-to-use software is designed for Windows 2000, 2003 Server, XP, Vista, 2008 Server and Windows 7. Serial data rates up to 230 kbps ensure maximum network flexibility.

MESR901 gateways are built for use in industrial environments, featuring a slim IP30 DIN rail mountable case. They operate from a range of DC power supply voltages and have pluggable terminal block connectors. An external power supply, sold separately, is required. MESR901 units have one Ethernet port.

SPECIFICATIONS:

Serial Technology

RS-232	TD, RD, RTS, CTS, DTR, DCR, DTD, GND
RS-485 2-Wire	Data A(-), Data B(+), GND
RS-422/485 4-Wire	TDA(-), TDB(+), RDA(-), RDB(+), GND
Serial Connector	DB9M or Removable Terminal Blocks; 12 to 28 AWG
Data Rate	Up to 230.4 Kbps

Power

Source	External
Input Voltage	10 to 48 VDC (58 VDC Maximum)
Connector	Removable Terminal Block (12 – 28 AWG)

Power Consumption

MESR901	4.0 Watts
---------	-----------



Kessler-Ellis Products

10 Industrial Way East, Eatontown, NJ 07724 • Toll Free: 800-631-2165 • Phone: 732-935-1320 • Fax: 732-935-9344

www.kep.com

Mechanical

LED Indicators	Serial Port, Ethernet Link, Ready
Switches	Reset Button
Dimensions	11.94 x 8.03 x 2.96 cm (4.70 x 3.16 x 1.16 in)
Weight	149.7 g (0.33 lbs)

Environmental

Operating Temperature	-40 to 80°C (-40 to 176°F)
Operating Humidity	0 to 95% Non-condensing
MTBF	~ 132309 hours
MTBF Calc Method	Parts Count Reliability Prediction

Network

Serial Memory	8 KB per port
Network Memory	4 KB
LAN	10/100 Mbps Auto-detecting
Ethernet	IEEE 802.3 auto detecting & auto MDI/MDX 10/100

Protocols

Protocols	TCP, IPv4, ARP, HTTP 1.0, ICMP/ PING, DHCP/BOOTP
IP Mode	Static, DHCP
TCP	User definable

Other

Mode	Modbus RTU Master / Slave Modbus ASCII Master/Slave
Search	Serial direct COM and Ethernet Auto Search or specific IP
Diagnostics	Display PC IP, ping, test VCOM, save test config. (text readable)
Firmware Upgrade	Vlinx Manager

Configuration Software

Vlinx Manager	Windows 2000, XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 bit), 2008 Server (32/64 bit), Win 7 (32/64 bit)
---------------	--

Regulatory / Certifications / Safety

Compliance	FCC, CE, NEMA TS2 (MESR901) UL Listed, File E222870 UL Class 1 Division 2 Groups A, B, C, D (HAZLOC), File E245458
------------	---

Ordering Information

MESR901	Modbus to Ethernet Data Gateway with 1-Serial Port, DB9 or Terminal Block Serial Connector, 1 - Copper Ethernet Port, RJ45 Ethernet Connector.
---------	--

DIMENSIONS:

