accessories

Converter TCP2RS+
Converter of RS-232 / RS-485 to Ethernet Modbus

Description

TCP2RS+ is a gateway for the conversion of the Ethernet physical medium to RS232 or RS485, or vice versa. The unit is fitted with a Web Server, from which the user can fully parametrize the device configuration parameters.

Powerful

TCP2RS+ is a gateway developed entirely in the **CIRCUTOR** factory, incorporating the latest Ethernet network integration technology with high reliability, stability and robustness of use. TCP2RS+ can work in fixed IP mode, and even in DHCP mode through name identification.

Versatile

TCP2RS+ is designed to work in multiple communication modes by simply selecting the desired option through the configuration Web Server. In master-slave function, the unit's Ethernet port can work in UDP or TCP mode to a configurable port, or in Modbus/TCP to port 502. In addition, the unit has routing functions to develop RS232/485 topologies on existing Ethernet infrastructures.

The selection of the network protocol series (RS232 or RS485) and other network parameters is done through the configuration web site.

Industrial

TCP2RS+ is the only gateway on the market with multi-range power supply and a DIN-type enclosure with as few as 2 modules. Its switching power supply allows you to power the device from 85 to 290 volts in alternating current, and from 120 to 410 volts in direct current.

⭘ Easy IP programming through the IP setup program (Windows)

⭘ Easy access to the configuration Web Server once its IP is known

⭘ RS232 or RS485 interface can be selected through Internet Explorer

⭘ Multiple communications protocols: UDP, TCP, Modbus/TCP or routing functions

⭘ Ethernet connection RJ45 10/100BaseTX

⭘ Connection of up to 32 units on the bus (RS485)

⭘ Compatible with any application on the market

(**PowerStudio** / **PowerStudio SCADA**)

Application

Converting RS-2323 or RS-485 signals to Ethernet or viceversa

Features

Network protocols	TCP / UDP / MODBUS TCP / HTTP
Ethernet	10BaseT / 100BaseTX with autodetect (RJ45)
Serial port	RS485/RS232 three cables (A/B/GND) (RX/TX/GND)
Serial port speed	4800...115,200 bps
Serial port data bits	7 / 8
Serial port stop bits	1 / 2
Serial port parities	even, odd, none
Configuration	HTTP/JSON/DHTML
Firmware	Upgradeable from a web site
Diagnosis LEDs	Power / RX / RT / FULL/HALF (Ethernet) / ACTIVITY / 10M/100M / LINK
Versatile power supply	85…290 VAC / 120…410 VDC
Power supply connection	Metallic terminals for "posidraft" screws
Build features	
Box	Self-extinguishible polycarbonate UL94 PV0
Protection degree	IP20
Attachment	Can be attached to DIN rail 46277 (2 modules)
Environmental conditions	
Standard temperature	-10 / 60 °C B
Storage temperature	-40 / 85 °C
Humidity without condensation	5…95%

Safety

Installation category Class III / EN61010 double-insulated electric shock protection class II. The equipment must be connected to a power circuit protected with type gl fuses, in compliance with IEC 269, or type M, with values from 0.5 to 1A. It must be fitted with a circuit breaker switch or equivalent device, in order to be able to disconnect the device from the power supply. The power supply cable must have a cross-section of at least 1mm2.

Standards

IEC 60664, VDE 0110, UL 94, EN61010-1, EN55011, EN 61000-4-2, EN 61000-4-3, 61000-4-11, EN 61000-6-4, EN 61000-6-2, EN 61000-6-1, EN 61000-6-3, EN 61000-4-5, EC

References

Type	Code
TCP2RS+, Ethernet Converter to RS232 / RS485	**M54033**

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