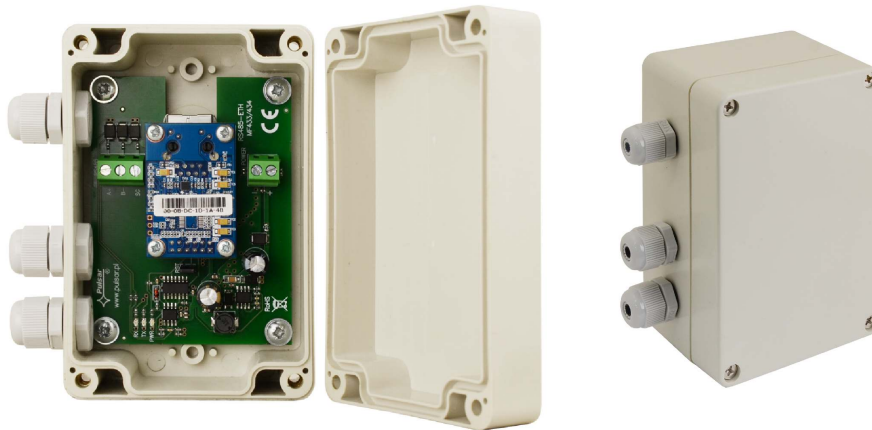CODE: **INTRE** v.1.1/III

TYPE: **Interface RS485-ETHERNET**
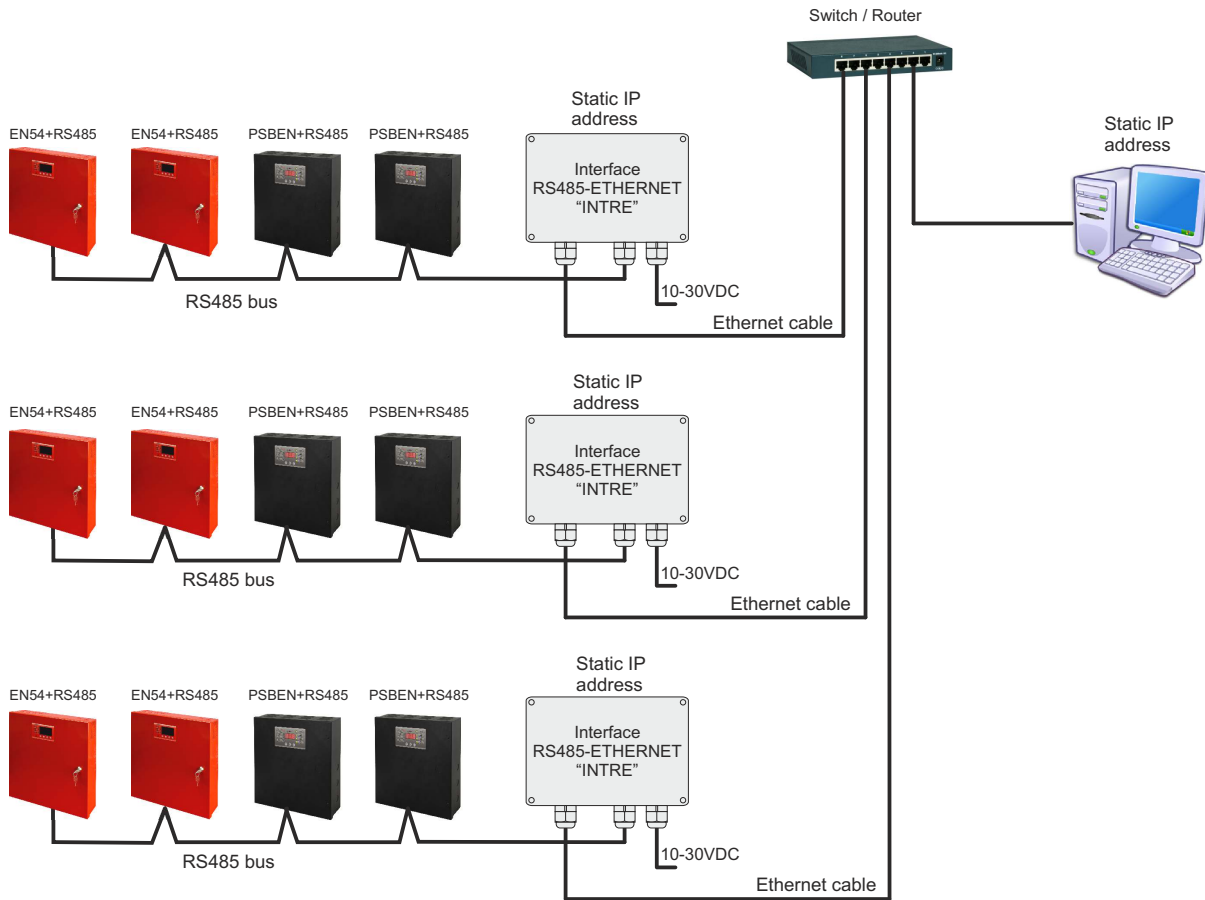
EN*

CE

PSU features:

- Operation in the ETHERNET network via the RJ45 connector
- complaint with the IEEE 802.3 standard
- transmission speed 10/100Mbps
- full duplex or half-duplex mode (auto-negotiation)
- assigning a static or dynamic IP address (DHCP server)
- galvanic isolation between the Ethernet interface and the RS485 bus
- 10 ÷ 30V DC power supply
- Cooperation with PowerSecurity software
- optical indication
- hermetic enclosure IP65
- warranty - 5 years from the production date

DESCRIPTION

The RS485-ETHERNET interface is a device intended for converting signals between the RS485 bus and the Ethernet network and dedicated for working with power supply units of the PSBEN or EN54 group connected to LAN/WAN network. To work correctly, the device requires external power supply within the range of 10 ÷ 30V DC e.g. drawn from a PSU of the PSBEN or EN54 series. The physical connection is safe due to embed galvanic isolation. The device is mounted in a hermetic enclosure that protects it against adverse environmental conditions.

Power supply	10 ÷ 30V DC
Current consumption	max 0,95W
TTL transmission's speed	max. 115200 bauds, with party control
LAN transmission's speed	10/100Mbps (auto-sensing)
Indication (LEDs)	Tx, Rx, PWR
Operating conditions	temperature -10 ^{o}C ÷ 40 ^{o}C relative humidity 20%...90% without condensation
Dimensions (LxWxH)	121 x 81 x 60 [mm]
Net/gross weight	0,26kg / 0,36kg
Protection grade	IP65
Storage temperature	-20ºC...+60ºC
Declarations, warranty	CE, RoHS, 5 years from the production date

A block diagram of communication in LAN.

Switch / Router

Static IP
address

EN54+RS485 EN54+RS485 PSBEN+RS485 PSBEN+RS485

Static IP
address

Interface
RS485-ETHERNET
"INTRE"

RS485 bus

10-30VDC

Ethernet cable

EN54+RS485 EN54+RS485 PSBEN+RS485 PSBEN+RS485

Static IP
address

Interface
RS485-ETHERNET
"INTRE"

RS485 bus

10-30VDC

Ethernet cable

EN54+RS485 EN54+RS485 PSBEN+RS485 PSBEN+RS485

Static IP
address

Interface
RS485-ETHERNET
"INTRE"

RS485 bus

10-30VDC

Ethernet cable

A block diagram of communication in WAN.

EN54+RS485

EN54+RS485

PSBEN+RS485

PSBEN+RS485

INTERNET

Public IP
address

Public IP
address

Static IP
address

Interface
RS485-ETHERNET
"INTRE"

Router

Router

Static IP
address

10-30VDC

Ethernet cable

RS485 bus

Ethernet cable