CODE: **INTRE-C** v.1.0/II **EN**
TYPE: **Interface RS485-ETHERNET EN54C-LCD**

Features:

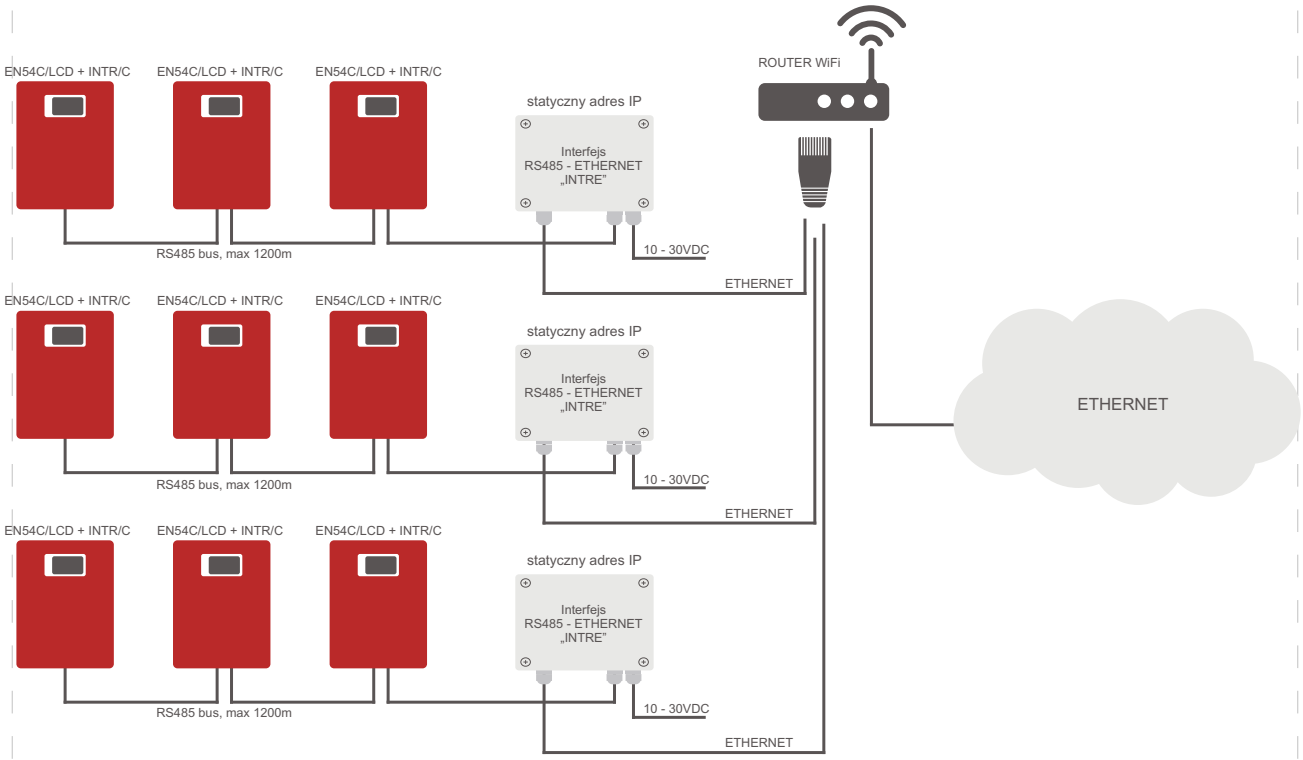
- permission of Scientific and Research Centre for Fire Protection - National Research Institute for use with power supplies of EN54C-LCD series
- up to 247 devices served on a RS485 bus
- automatic detection of PSUs on the RS485 bus
- dynamic addressing of PSUs
- automatic email notifications of PSU malfunctions
- connection to ETHERNET network via the RJ45 connector
- compliance with IEEE 802.3 standard
- 10/100 Mb/s transmission speed
- full-duplex or half-duplex operation (auto-negotiation)
- galvanic isolation between ETHERNET interface and RS485
- 10÷30 V DC power
- cooperation with the PowerSecurity web application
- optical indication
- IP65 hermetic enclosure
- warranty: 3 years from production date

DESCRIPTION

Interfejs RS485-ETHERNET przeznaczony jest do współpracy z zasilaczami serii EN54C-LCD. The PowerSecurity software enables remote monitoring of parameters through a cyclical preview of the current status of the power supply, reading the event log and diagrams of currents and voltages and performing remote battery test.
Interface is a device used to convert signals between RS485 bus and Wi-Fi network. For proper operation, unit requires an external power supply in range of 10÷30 V DC e.g. drawn from a PSU of EN54C series. Unit is mounted in a hermetic enclosure protecting against adverse environmental conditions.

Power supply	10 ÷ 30V DC
Power consumption	max 0,8W
RS485 transmission's speed	max 115200 bauds, with parity check
LAN transmission's speed	10/100Mbps (auto-negotiation)
Optical indication	PWR – supply voltage indication (red LED) LINK_ETH – port Ethernet podłączony (LED zielona) TX – data transmission (yellow LED) RX – receiving data (green LED)
Operating conditions	humidity -10°C ÷ 40°C relative humidity 20%...90% no condensation
Dimensions (LxWxH)	121 x 81 x 60 [mm]
Net / gross weight	0,25kg / 0,35kg
Protection class	IP65
Storage temperature	-20ºC...+60ºC
Other	Permission of Scientific and Research Centre for Fire Protection - National Research Institute for use with power supplies of EN54C-LCD series

Schematic diagram of Ethernet network communication



The network topology is based on an Ethernet switch (e.g. switch, router) to which subsequent segments of power supplies are connected (connected in the RS485 bus) via the RS485-Ethernet interface. Each interface has a static IP address. The communication between a PC and an end PSU is effected through entering of the IP address of the interface, the address of the PSU in the RS485 bus, and the number of the port in which the communication takes place. An interface may support a maximum of 247 PSUs on one RS485 bus.