

Converter Ethernet-PLC

Type ETH2PLC

Datasheet



Description

The ETH2PLC converter is used to convert a standard network medium – an Ethernet 100BASE-TX (TP) cable – to a two-wire medium (two-wire or coaxial cable) required for the EMS-PLC measuring module to function.

The module is powered by 48 to 57 V DC according to the POE IEEE 802.3af (Power over Ethernet) standard. This power supply voltage is output to the module output connector (BNC), on which the PLC data frequency multiplex signal is superimposed (Powerline connection). The module does not require any settings. A maximum of 4 EMS-PLC modules can be connected to one ETH2PLC module. In the case of simultaneous use of multiple ETH2PLC converters, it is necessary to ensure sufficient physical distance of the two-wire cabling (usually several meters) to avoid interference (all converters operate in the same, standardized frequency band of 2 to 30 MHz).

PARAMETERS

Max data rate	200 Mbit/s
Transmission band	2 až 30 MHz
Input	Ethernet 100BASE-TX, POE, RJ45
Output	PLC IEEE1901, 48-57 V DC, BNC (F)
Max.number of connected EMS-PLC modules .	4
Supply voltage	48 – 57 V DC (POE)
Power (without ETH-PLC modules)	3 W
Degree of protection	IP20
Ambient operating temper. range ...	-20 °C .+50°C
Dimensions	130 x 75 x 25 mm
Weight	130 g

Ing.Jiri Malinsky
Tocita 358/25
140 00 Praha 4 – Krc
Czech republic
jimm@volny.cz