



RSPLC51 - RS485 to PLC



GENERAL DESCRIPTION

The device allows a usage of Power Line Communication (PLC) as infrastructure for data transmission. The unit Converts RS 485 communication to PLC and vice versa.

The unit self installed and no setup is required.

The user should take into consideration the communication speed in order to synchronize the communication.

The unit allows real time communication, long distance of power lines (up to 2000m), at any infrastructure (Cooper or Aluminum) at most noise grid lines.

CHARACTERISTICS:

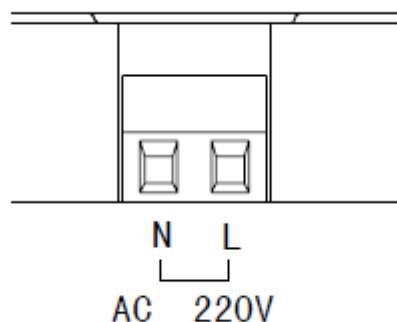
Allows a PLC port to be added to any RS 485 device. It saves the cost of setting communication infrastructure. Includes optical isolation up to 6000 DC volts. This protects the end element from possible line disturbances.

Technical parameters:

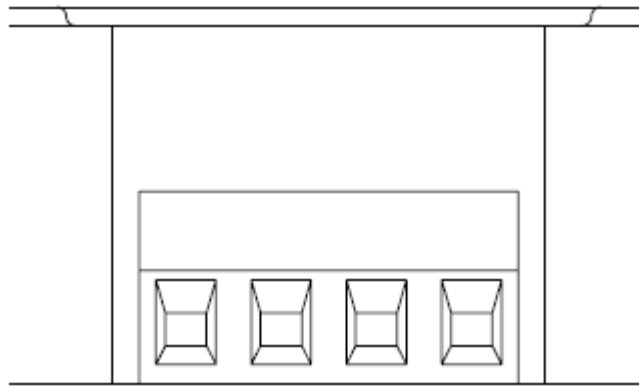
1. RS 485 baud rate: 9600 bps/1200bps
2. RS 485 software protocol: Modbus or DL/T 645
3. PLC baud rate: 500bps
4. PLC modulation: QPSK
5. PLC carrier frequency: 120kHz
6. AC input: 220-240V

INSTALLATION GUIDE:

1. FIGURE:



2. CONNECTION SCHEME:



B2 A2 B1 A1

RS485 PORT
PORT 1:A1 B1
PORT 2:A2 B2

CHARACTERISTICS OF THE CABLES:

The connection at RS485 socket must use twisted and shielded cable.

It is recommended the RS485 Cable does not exceed 1200 meters.

The terminal resistor must be inserted when the converter is at the end of the line, using the Terminator jumper.