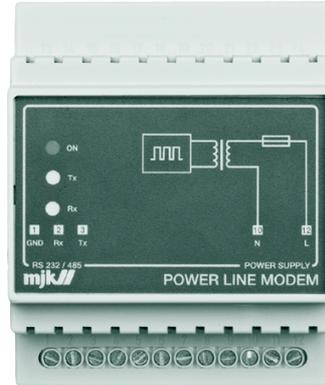# Power *Com*
Mains modem

General

For data transmission on the supply network we have designed PowerCom mains modem. The modem is inserted in transmission connections, between instruments such as MJK ComTroller 702, MJK Data Transmitter 795 or other serial communication units.

Characteristics

- RS 232 or RS 485 serial communication
- Transmission speed from 300 to 1200 baud
- EN-500065 (standard for data transmission on the public supply network)

- Transparent communication (protocol in = protocol out)
- 115 kHz carrier waves
- DIN rail mounting

Functions

MJK PowerCom transmits serial data on the 230V supply net from a 115 KhZ carrier wave. The modem is insulated from the net supply, by filters on in- and output.
In applications Comli protocol and serial signal can be connected to the instrument, and the corresponding signal can be chosen from another PowerCom modem placed up to a 1.000m distance.

There might be other consumers on the line. Transmission can only take place on the consumer side of the connecting transformer station, and on the same phase. Distance between the two PowerCom modems depends on the actual supply line and speed of serial communication. At 1200 baud, there might be up to 1000m between the PowerCom modems.
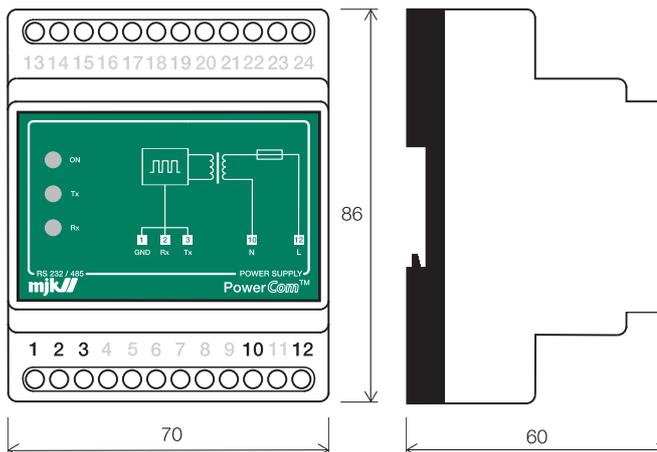
6.23

Application

When developing the PowerCom modem, special consideration to Scada systems in water and wastewater plants has been taken. For water borings and smaller pumping stations, transmission on the pump power

supply is an economical solution. PowerCom modem can be applied to the Scada system through the power supply.
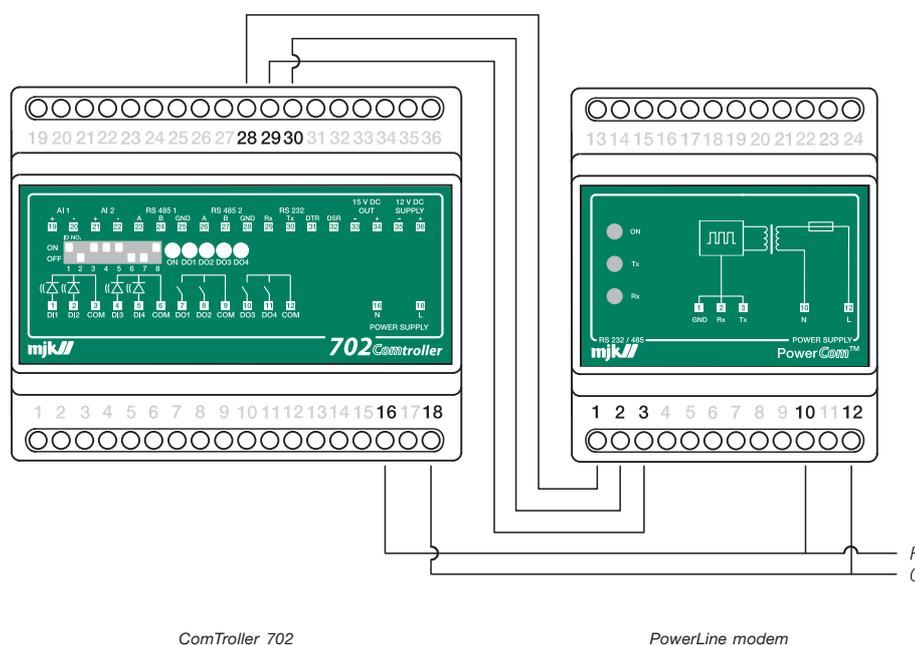
Speceifications

PowerCom™

Order numbers:	205130	205131
Connection:	230 V AC	
IIn- and output:	RS 232	RS 485
Transmission speed:	300 til 1200 baud	
Insulation voltage Input/net supply:	2000 V	
Temperature range:	- 20 … + 60 °C	
Mechanical dimension:	86 x 70 x 60 mm (h x w x d)	
Enclosure:	IP 22	

Data sheet

mjk///

Dimensions

Electrical connection

Illustration of PowerCom connected to a ComTroller 702

ComTroller 702   PowerLine modem

Application sample

Illustration of transmission between Data Transmitter 795 and ComTroller 702.

ComTroller 702   PowerLine modem   PowerLine modem   Data Transmitter 795