

P2CA
Communicator



ISKRA
Made in Slovenia 2001

Trilazni transformatorski števec
SI 08-11-001
Tip: MTAS1-T1A42R52-V73LT3-T4K2K01225 3x230/150 V 50/60 A 30 kWh
Razš: 000 imp/kWh Razš: 000 imp/kWh
Vezava: IS2200G

1) do 10 000 imp/kWh 2) do 10 000 imp/kWh

23 465 655

MODEM2 - ISDN TA + POI
CE 0682 X

ISKRA Made in Slovenia 2003

Komunikator **P2C**
100 V, 230 V, 20 Hz
P2CA-K454-06
29 897 687

12 345 678

- RUN
- TxD
- RxD
- RTS
- DCD
- CS

CE

The **P2CA** communicator is intended for remote readout and parameter setting of electronic multi-function electricity meters on the level of industrial consumption. It enables bi-directional data transmission from the meter to the centre and vice-versa. RS232, RS485 and CS communication interfaces are built in the communicator for connection with the meter, and a PSTN, an ISDN, a GSM modem or an Ethernet interface for connection with the centre for data collection. The communicator supports a transparent mode of data transmission. All meters with fixed data transmission rate can also be connected to it.

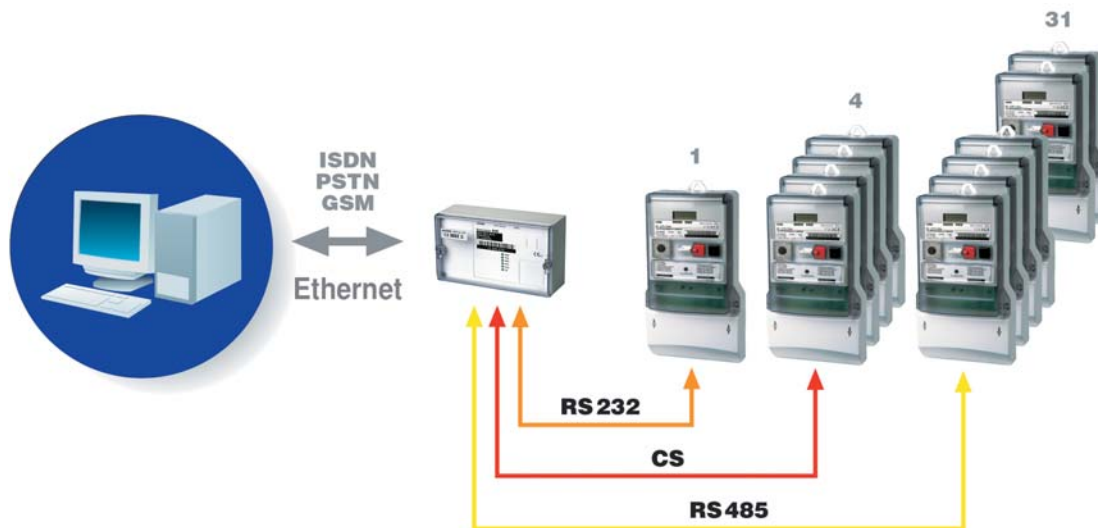
Communicator Operation

The communicator is a transparent modem, intended for applications in the industrial environment. It can be prepared for operation via a built-in RS232 interface by means of AT commands. All parameters are stored directly in the modem. An optional terminal program can be used for parameter setting.

It is possible to connect to the communicator at the same time one meter to the RS232 channel, four meters to the CS – 20 mA current loop, and 31 meters to the RS485 interface. Each meter should be provided with a unique identification number. Although up to 36 meters can be connected to one communicator at the same time, data transmission can be performed only from one meter at a time! If a CS channel is not used, it should be short-circuited!

The communicator supports transparent data transmission mode in compliance with the EN 61107 standard, mode C, without rate changeover. A demand for reading a certain meter received by the communicator on the modem channel is transmitted transparently via all communication channels to all meters. The meter with a corresponding identification number answers to the request and sets up connection with the centre. Data transmission rate should be fixed and the same at all meters.

The communicator operation can be monitored via built-in LEDs.



MARKING

Type	Communication interfaces	Supply unit
P2CA K454 - 06	RS232 + CS + PSTN modem V.90	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz
P2CA K47 - 06	RS232 + CS + ISDN TA	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz
P2CA K481 - 06	RS232 + CS + GSM modem	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz
P2CA K49 - 06	RS232 + RS485 + CS + PSTN modem V.34	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz
P2CA K497 - 06	RS232 + RS485 + CS + GSM modem	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz
P2CA K498 - 06	RS232 + RS485 + CS + Ethernet	1x 100V _{ac} and 1x 230V _{ac} 45 – 65Hz

TECHNICAL DATA

POWER SUPPLY

Supply voltageSingle-phase, 100 V_{ac} or 230 V_{ac}, 45 – 65 Hz
 ConsumptionMax. 2 VA

SERIAL INTERFACES

	Transmission rate	Max. line length	Max. no. of meters
RS232	300 – 57 600 Bps	15 m	1
CS	300 – 9 600 Bps	1200 m	4
RS485	300 – 57 600 Bps	1200 m	31

COMMUNICATION

PSTN V.34 modem

Data servicesV.34, V.32bis, V.32, V.22bis, V.22, V.23 V.21
 Correction of errors:V.42 LAPM and MNP 2-4
 Data compressionV.42bis and MNP 5
 ConnectorRJ11

ISDN TA

D-channel protocol
 X.31 (X.25 v D-Channell)
 DSS1 (with implemented UUS and Subaddressing service)
 B-channel-protocols
 V.110 (1200 – 19200 Bps)
 HDLC asynchronous/synchronous conversion – PPP
 HDLC transparent transfer
 X.75 – data transfer and TA remote control (64 000 bit/s)
 V.120
 X.31 (X.25 in B-Channel)
 ML PPP (recombining of B-Channels) (2 x 64 000 bit/s)
 ConnectorRJ45

GSM modem

TypeSiemens TC35i
 GSM characteristicDual band EGSM900 and GSM 1800,
 GSM phase 2/2+
 GSM data servicesup to 14 400 bps, USSD, non-transparent
 V.21, V.22, V.23, V.22bis, V.26ter, V.32, V.34, V.110
 SIM cards readerExternal, for small SIM cards (5/3V)
 ConnectorFME

OPERATION CONDITIONS

Ambient temperature-25°C to +60°C
 Air humiditymax. 75%
 Dust protectionIP 50 (IEC 529)

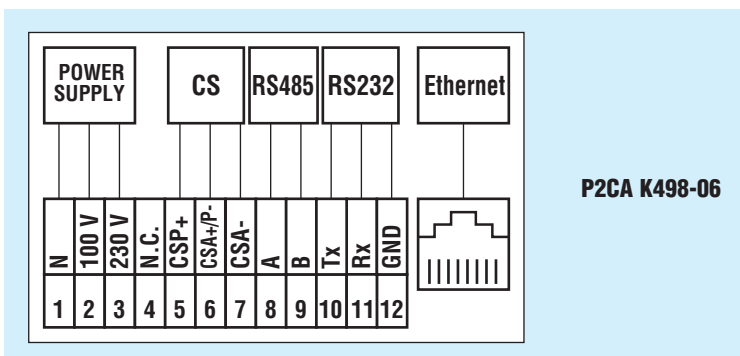
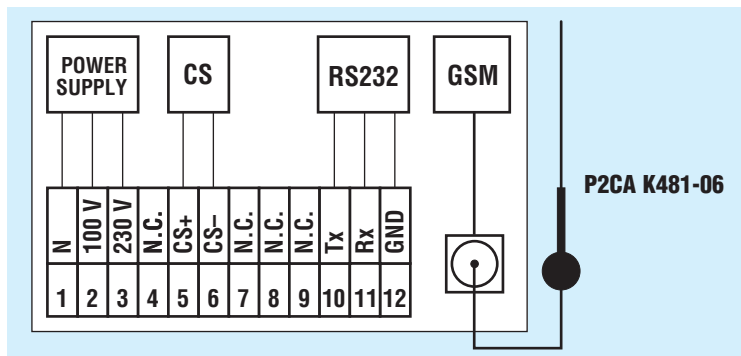
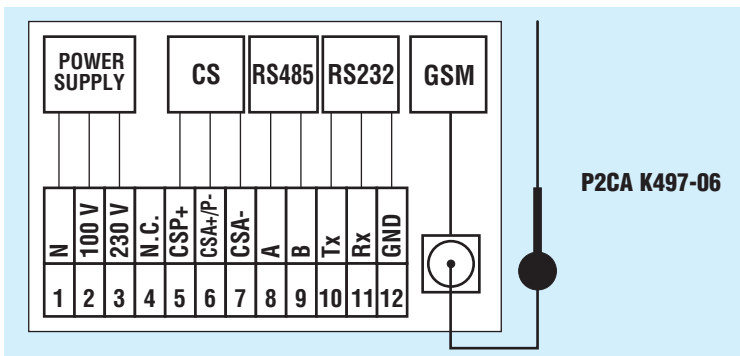
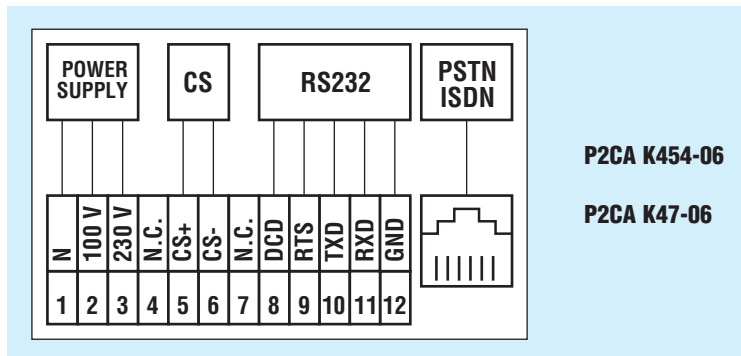
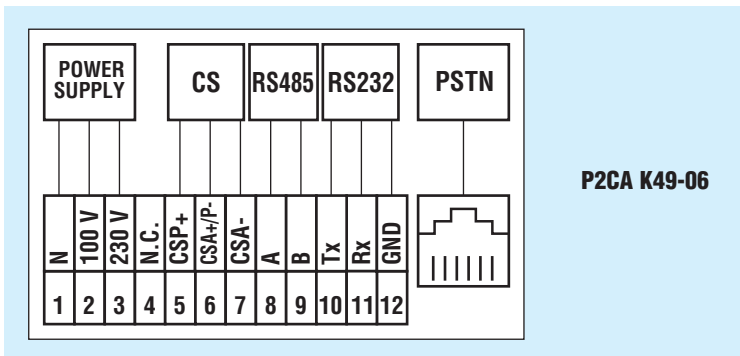
DIMENSIONS

Length x Height x Width179 mm x 1104 mm x 65 mm
 Mass1.3 kg

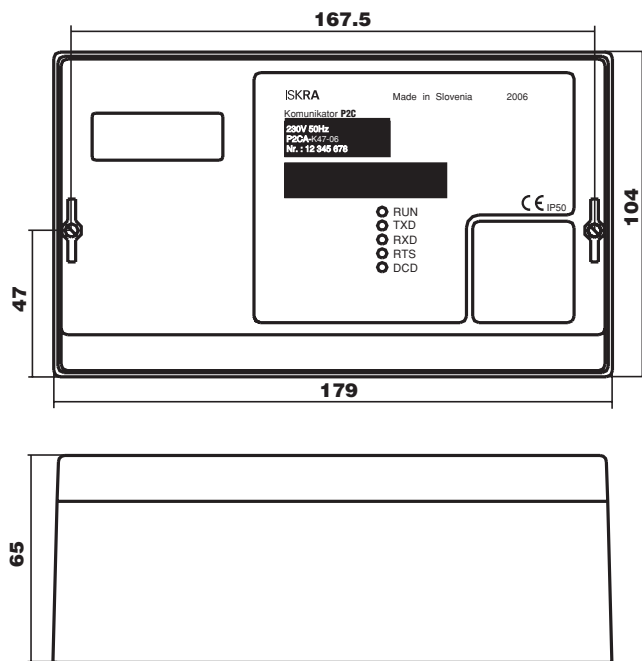
ASSEMBLY

A communicator can be fixed to the meter terminal cover (“huke pack”) or independently to the wall.

CONNECTION DIAGRAM



OVERALL AND FIXING DIMENSIONS



Owing to periodical improvements of our products the supplied products can differ in some details from the data stated in the prospectus material.