GSM-GPRS modem CGU 04i

wireless connection of industrial equipment

Telemetry / Telematics

SCADA, Telemetry, Data acquisition

Meters (heat, electricity, water, gas)

Control and monitoring systems

Transport and mobile equipment

Vending and cash machines

Security systems

Intelligent CGU 04i modem provides wireless data transmission via mobile GSM-GPRS network. Modem is permanently on-line. User does not care about establishment and maintenance of GPRS communication just connects his equipment. Installation of CGU 04i is easy and important is only availability of GSM signal.

CGU 04i modem connects via GSM-GPRS all the devices that communicate by standard industrial communication protocols – MODBUS, S-BUS, MBUS, IEC 60870 and many others. Modem also supports the conversion of selected protocols – IEC60870-101 and IEC60870-103 to IEC60870-104, conversion of many protocols to MODBUS and so on. Another special protocols or functions can be implemented on request of customer.

Modem includes extensive diagnostics and service functions – the signal measurement, number of messages, data transfer measuring, temperature, power supply etc. Modem records all statistical data to the memory.

All diagnostics and configuration of the modem might be done remotely over the network; configuration software tool RADWIN is available for free.

1 × RS232
1 × optional RS232, RS485, RS422, M-BUS Master
5 × analogue/digital I/O

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ISO 9001:2001

WHY CGU 04i?

- **easy and quick installation**
- **reliability and security**
- **effective operation, data compression**
- **on-line communication, short response time**
- **possibility to add a new communication protocol**
- **for large networks or simple point to point connection**
- **possibility to connect many independent devices to one modem**
- **integration into any IP network (Internet / Intranet)**
- **combination with radio modems CDA70 and CDX800 allows you to create mixed network with the possibility to backup communication by alternative technology**

Applications

- **Power engineering** – remotely controlled switch lines, transformer stations, alternative sources of energy etc.
- **Heating systems** – transferring stations, boilers, heat meters, steam lines etc.
- **Waterworks engineering** – water reservoirs, pumping stations, sewage water stations, water shafts etc.
- **Transport** – transport infrastructure, road and rail transport etc.
- **Sale and financial** – POS, lottery machines, ATMs, etc.

your connection...

ENGINEERING CHARACTERISTICS

Comply standards	EN 60 950:2001; ETSI EN 301 489-1:V1.2.1; -7:V1.1.1; EN 55022 3GPPTS51.010-1, V5.5.0; ETSI EN 301 511, V7.0.1
Frequency bands	EGSM900, GSM1800 and GSM1900
GPRS parameters	GPRS multi–slot class 10 (4+2) GPRS mobile station class B
Themperature range	-20 to +55 °C
Power supply	+10 to +30 V DC
Energy consumption	GPRS TX 3,5 W GPRS 1 W GSM stand–by 350 mW
Dimensions	30×90×102 mm (fitting DIN ledge 35 mm)
Weight	150 g
Antennal connector	FME – 50 Ohm
Interface	PORT1 (RS232) – connector RJ45 (150 b/s–115 200 b/s) PORT2 optional RS232, RS485, RS422, MBUS CIO – I/O, 5 programmable inputs (analogue, binary)/outputs (opened collector) – RJ45

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