Modem
RS-232 / 485 GSM / GPRS

Description

This modem has GSM and GPRS communications, it is used for installations where there is not an analog telephone line. The device is able to be configured local or remotely. With GPRS communication through a fix IP address and coverage signal by internal LED's.

Application

The device is connected with the meters by a GSM phone call or via GPRS. With two communication channels: RS-232 and RS-485 that receives calls to control and data download from the meter.

RS-232: Connection with only one meter. The maximum distance allowed between meter and modem is 15 m.

RS-485: Possibility to communicate up to 32 meters using one modem. The maximum distance is 1200 m.

Features

Power supply	
Voltage range	100 - 230V, 50Hz
Power consumption	10 VA active mode 6 VA passive mode
Interfaces GSM	
GSM	GSM Rec. 7.02 asynchronous, Non-Transparent, 9,6 kbit/s, Modem type V.32, RLP according to GSM Rec. 4.22, ISDN-type V.110, small SIM with or without PIN GSM-900 MHz or GSM-1800 MHz, 2 Watt transmit power
Antenna type	Antenna (mounting clip) cable 1,5m Magnet holder antenna cable 2,5m FME connector
Interfaces	
Meter connection	RS232 up to 19,2 kBit/s, full duplex, (Rx, Tx, GND, DTR) via RJ-45 connector RS485 up to 32 Transceiver, 2-wire, 19,2 Bit/s, 1000m cable length fixed Baud rate or Mode C Data format : 8N1 or 8E1
Climatic conditions	Operating temperature : -10 ... +55 ºC Storage temperature:-20....+80 ºC Humidity range: 0 - 95 % relativ, non condensing
Protection type	IP 51
Dimensions	Terminal cover or meter board H=180mm, W=105mm, T=70mm

Modem

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180 mm

70 mm

105 mm

References

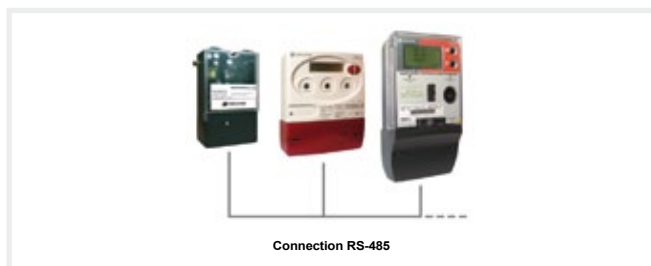| Description	Type	Código
Modem GSM/GPRS (includes antenna + communication wire RS-232)	**Modem GSM (non parity)**	**Q30213IB**
Modem GSM/GPRS (includes antenna + communication wire RS-232)	**Modem GSM (even parity)**	**Q30213EN**
Amplified antenna 9 dB	**Amplified antenna**	**Q4994E**

Connections

RJ 45 (Modem)	DB9 Femmale RS-232 (CWT)	RJ12 (CWT)
PIN 4	5	PIN 1 y 6 (Join)
PIN 5	2	PIN 2
PIN 6	3	PIN 3
	Join 4 - 6 / Join 7 - 8	

Connection RS-232

RS-232 Interface (RJ45 - Jack)		
PIN	**Signal**	**Description**
2	DCD	Output: Active for GSM connection
4	GND	Signal ground
5	TXD	Output: data to meter
6	RXD	Input: data from meter

Signals and levels according to V.24 / V.28. All other pins are reserved.

Connection RS-485

RS-485 Interface (terminal block)	
Signal	**Description**
RT-	Negative RS-485 interface signal
RT+	Positive RE-485 interface signal

Dual-wire RS-485 interface to connect up to 32 transceivers.
The bus connection is terminated to Z=120 Ω (nominal)
(RT+ a RT-) and the cable length is limited to 1200m.

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