



- Integrated dual-band or quad-band GSM/GPRS modem [GPRS Class 10] or EDGE supported
- Operation in GSM network in CSD or GPRS technology
- Static or dynamic IP support in GPRS network
- Power supply AC 90...264 V, DC 110...240 V or via external supply +5 V
- Led indication of GSM signal strength and modem status
- Internal rechargeable 600 mAh Lithium ion battery
- Inputs for alarm function
- Mounting under terminal cover or DIN rail



GSM/GPRS network



20 mA current loop interface



RS 485 interface

Controller MCL 5.0 with internal GSM/GPRS modem

Controller MCL 5.0 is used in AMR system for remote automated data reading of electricity, gas, heat meters and other electronic devices and data transmission to dispatcher offices using GSM radio network with CSD/GPRS technology and TRANSPARENT DATA, TCP/IP protocols. Controller can be mounted under terminal cover of electricity meter or fixed to 35 mm DIN rail.

Technical specifications

Specifications

● Frequencies of operation in GSM network, MHz	Dual Band – 900, 1800 Quad Band - 850, 900, 1800, 1900 [EGSM 900, DCS 1800]						
● GPRS class:	Mode B, Multislot 10 [4RX/2TX, Max 5 Slots] [GPS – special order]						
● GPRS protocol	GPRS Release 97 and 99, SMG 31						
● GPRS code schemes	CS1-CS4, MCS1-MCS9						
● Class of power transmission	<table border="0"> <tr> <td>Range</td> <td>GSM/GPRS</td> </tr> <tr> <td>1800/1900</td> <td>Class1 [1 W]</td> </tr> <tr> <td>850/900</td> <td>Class4 [2 W]</td> </tr> </table>	Range	GSM/GPRS	1800/1900	Class1 [1 W]	850/900	Class4 [2 W]
Range	GSM/GPRS						
1800/1900	Class1 [1 W]						
850/900	Class4 [2 W]						
● Sensibility, dB	- 106						
● Net baud rate of radio channels, Baud	75, 150, 300, 600, 1200, 2400, 4800, 7200, 9600, 14400, 19200, 28800, 33900, 38400, 57600, 115200, 230400 or 460800						
● Net baud rate of physical interface, Baud	300, 600, 1200, 2400, 4800, 7200, 9600, 14400, 19200						
● Aerial interface	SMA						
● The main protocols of control	AT Commands, Menu system						
● Inner GPRS modem protocols	TCP/IP, UDP						
● Data transmission	Asynchronous, encoded or clear up to 14,4 kb						
● AC 45...60 Hz power supply range of network voltages	90 ... 264 V						

Interfaces and mounting

● PC-controller net baud rate via RS232 interface, 8N1 bits, Baud	4800
● Number of meters connected to 20 mA current loop interface	Up to 3
● Number of meters connected to RS485 interface	Up to 8 [up to 32 on demand]
● Controller can be mounted under terminal cover of electricity meter or fixed to 35 mm DIN rail	



Case & Dimensions

● Case	UV stabilized ABS
● Dimensions, mm	68 x 93 x 37
● Work temperature range	-20 ... +50 °C



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