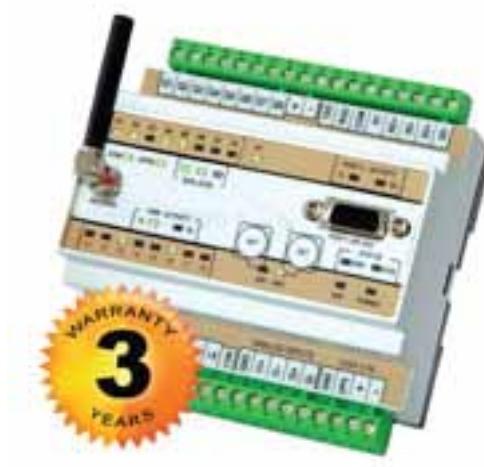


- GSM/GPRS packet transmission
- Integra GSM 850/900/1800/1900 modem with automatic login onto GPRS netw
- Binary inputs and outputs
- Analog inputs 4-20 mA (6)
- Serial communication port for external devices (RS 232/422/485), isolated
- Data logger with 0,1 sec. resolution
- RTC Real Time Clock
- Programmable logic controller (PLC)
- Standard communication protocols (MODBUS RTU, GAZMODEM, M-BUS, NMEA 0183)
- Removable terminal blocks
- Easy configuration software
- FlexSerial mode for program based protocol handling



Telemetry Module 102 is a professional device combining functionality of programmable logic controller, data logger, protocol converter and wireless communication interface for GPRS packet transmission over GSM network. Compact, robust design, integral GSM modem, attractive technical features and easy to use configuration tools are important advantages of 102 in wireless, scalable, multi-node systems for telemetry, control, diagnostic, surveillance and alarming.

Resources

- 8 configurable binary outputs / inputs / counters 24V DC (Q1 - Q8)
- 2 optoisolated fast analog inputs 4-20 mA (1,5% acc./10 bit res.) with configurable hysteresis and filtratior
- 4 optoisolated analog inputs 4-20mA with configurable hysteresis and conversion time (U/f conversion, accuracy 0,5%)
- Internal registers, flags and constants available to interna user program
- Isolated serial port RS232/485/422
- Firmware Flash memory with remote update capabilit
- RTC with external synchronization function

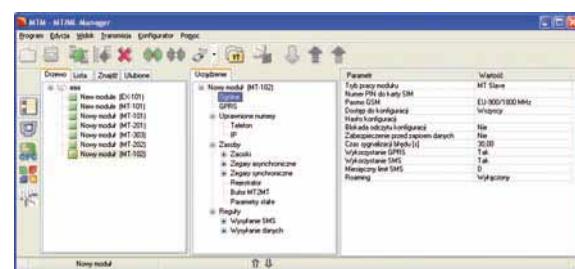
Functionality

- Transmission modes:
 - GPRS - packet transmission
 - SMS
 - CSD - circuit switched data transmission (in modem mode only)
- All internal resources accessible with standard Modbus RTU protocol
- Intelligent packet routing and Multimaster in Modbus RTU mode
- Packet broadcasting or intelligent routing in transparent mode
- All binary inputs configurable as counters or frequency-to-analog converters (0 2kHz)
- Programmable control functions using I/O's and configurable, event triggered flags (SMS sending, data sending / logging, output control, call in)
- Unsolicited messaging on input/flag change, analog signal alarm level crossing or logical function evaluation.
- Event triggered Data Logger
- Dynamic SMS text insertion
- Simple, multipoint (4) alarm configuration for both binary and analog inputs
- Additional manual alarm level setting capability for analog inputs A1, A2 (front panel push buttons)
- Serial port emulated protocol in GPRS mode:
 - MODBUS RTU (Master and Slave)
 - Transparent, intelligent modem
- External module resource mapping to internal registers for data transmission improvement and event triggering
- Multicast for transparent mode
- Remote (via GPRS) configuration and programming
- Configurable access security - IP and Tel. list , optional password
- DIN rail mounting
- Power supply 12/24V DC, 24 V AC
- Removable terminal blocks
- Diagnostic LED's (status, GSM transmission activity, GSM signal level, GPRS activity, serial

General

Dimensions (length x width x height)	105x86x60 mm
Weight	300 g
Mounting	DIN Rail 35mm
Operating temperature	-20 ... +55°C
Protection class	IP40
Max. voltage at all connectors relative to device's GND.	60Vrms max

Configuration utility



GSM/GPRS Modem

Modem type	WAVECOM WIRELESS CPU
GSM	QuadBand (850/900/1800/1900)
Frequency range:	
GSM 850	Transmitter: 824MHz – 849 MHz Receiver: 869 – 894 MHz
EGSM 900	Transmitter: 880MHz – 915 MHz Receiver: 925 – 960 MHz
DCS 1800	Transmitter: 1710MHz – 1785 MHz Receiver: 1805 – 1880 MHz
PCS 1900	Transmitter: 1850 – 1910 MHz Receiver: 1930 – 1990 MHz
Sender's peak power GSM850/EGSM900	33 dBm (2W) - class 4 station
Sender's peak power DCS1800/PCS1900	30 dBm (1W) - class 1 station
Modulation	0,3 GMSK
Channel spacing	200 kHz
Antenna	50

Power supply

Voltage range (DC) 12,24V	10,8 ... 36 V	
AC (24V)	18...26,4 Vrms	
Input current (A) (for 12V DC)	Idle 0,10	Active 0,60
Input current (A) (for 24V DC)	Idle 0,06	Active 0,25

Inputs Q1...Q8

Maximum input voltage	36 V
Input resistance	5,4 k
Input voltage ON (1)	> 9V min.
Input voltage OFF (0)	> 3V max.

Outputs Q1...Q8

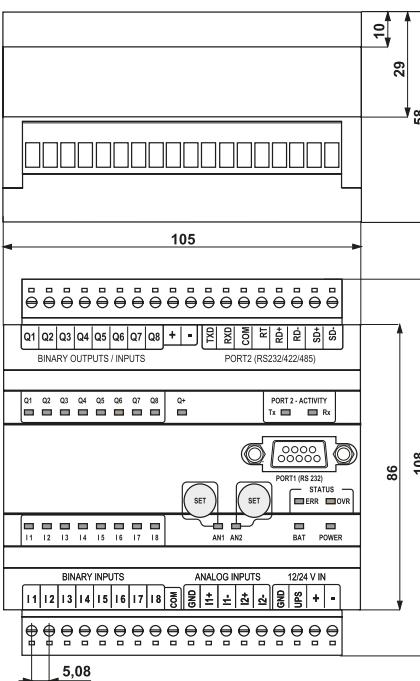
Recommended average current for single output	50mA
Single output current	350mA max
Mean current for all outputs	400mA max
Voltage drop at 350mA	<3,5V max.
Off state current	< 0,2mA max.

Analog inputs A1, A2 (4...20 mA)

Input current	4...20mA
Maximum input current	50mA max.
Dynamic input impedance	25 typ.
Voltage drop at 20mA	<5V max.
A/D converter	10 bitów
Accuracy	1,5% max.
Nonlinearity	1% max.

Analog inputs A3...A6 (4...20 mA)

Input current	4...20mA
Maximum input current	50mA max.
Dynamic input impedance	50 typ.
Voltage drop at 20mA	5,5V max.
A/D converter	U/f
Accuracy	0,5% max.
Nonlinearity	0,2% max.



Additional info:

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