M2M EASY 2 SECURITY IO®

GSM/GPRS alarm signal transmitter with IO-expansion

The signal transmission device is assembled with input/output expansion.
It is capable of forwarding signal changes of the input lines, line's open circuits through the GSM/GPRS network (standard Contact ID format alarms). The received signals are transmitted by the device to the dispatcher centre, as well as the Customers will be notified.
Through the output lines several connected devices can controlled remotely.

Communication

- Analog voice-call based alarm signaling through GSM to the alarm centre or by phone line
- GPRS transmission (to an IP receiver, to primary or secondary IP)
- Sending life signals through GSM/GPRS
- Generating alarms for signal changes of input lines
- SMS alarm notification (up to 4 phone numbers)
- Remote control by SMS message/phone ringing*
- Various protocols, Contact ID international format, compatibility with several alarm systems

Connection

- 8pcs inputs, sense status changes/generate alarms
  - configurable operation mode of inputs, invertable
  - galvanically independed voltage input
  - contact: short, open circuit, 10kOhm resistor
- 4pcs outputs (remote control/switching)
- Alarm Tip-Ring input (for alarm system)
- Serial connection (configuring parameters)

Safety

- Reliable operation, automatic network recovery
- Easy installation, own parametrizing software
- Remote/local configuration/firmware updates
- LED display (inputs/status/failure/signal strength)

Application

▶ Transmission to dispatcher centre
▶ Transmitter for alarm systems
▶ Standalone alarm signaling
▶ Safety tasks
▶ Remote control (contact switching, gate opening, industrial control)
▶ Remote monitoring of input lines

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Configuration parameters

- Alarm dispatching centre/IP receiver settings
- Alarm and zone settings
- Free to configure life signal sending intervals
- Report and SMS notification settings
- Input settings (8pcs input lines, configurable operation modes, invertable active/inactive logical levels, enabled/disabled cross-steps)
- Relay switching output settings (4pcs output)
- Gate opening (for 1pcs mainboard output)
- Remote server parameters
- Terminal emulation (log, AT commands)
- Firmware updates
- Save/load file of configuration

Remote control

- Through TCP/IP connection
- Contact output control by phone ringing (only the mainboard output*), with SMS commands (further output lines)
- Bi-stable or mono-stable operation mode (delay can be configured up to 1 day)
- Max 125 phone numbers in contact list
- Optional SMS notification about output status

Configuration

- Locally, through serial port
- With SMS commands
- Through TCP/IP connection

Software updates

- Locally, through serial port
- Ftp server
- Through TCP/IP connection

Technical data

M2M Easy 2 Security IO®		
Power Voltage		8-24VDC, 1A
Current		- stand-by: 45-95mA 12V - max.: 160mA (GSM/GPRS network usage and all IO ports are wired)
Communication module	Mobile Standards	GSM/GPRS
	Modem type	Gemalto BG2-E
	Frequency (Mhz)	GSM 900/1800
	Speed (DL/UL)	max. 85.6/21.4 kbps
Communication	Protocol	Alarm centre protocols, TCP, UDP based communication
	Compatibility	Contact ID, SIA CID/DTMF, Enigma (M2M Digital Receiver), WM-Alarm
SIM card	Availability	Normal SIM card
Antenna	Mount	1x 2G conn., SMA
	Feed point impedance	50 Ohms unbalanced
Interfaces	Connectors	- 8pcs inputs (jumperable, galvanical independed, voltage/contact (short, open circuit, 10kOhm resistor sensing), inertable active/inactive logical levels, enabled/disabled cross-steps, terminal block) - 4pcs relay outputs (terminal block) - 1pcs simulated analog phone line (ALARM TIP-RING, terminal block) - Power connection (8-24VDC, 1A, terminal block) - Serial connector (RJ11) - configuration, software updates
	Signal level	- Input line high level: 2-24V - Input line low level: 0-1V - Current in active mode (contact input): 0,33mA - Controllable output, load: 1A - 120V AC; 1A - 24V DC
User interface	Configuration	- EasyTerm® software (config., parametrizing, software updates) - SMS commands - TCP/IP connection
	Indication	Status LEDs: Voltage/contact input status, Relay output status, Alarm center connection health, GSM modem communication, Operation/Signal strength
Temperature, conditions	Operating	between -40°C and +70°C
	Storage	between -40°C and +80°C
	Humidity	0-95% rel.
Construction	Housing	Optional plastic coverage, mountable to DIN-rail
	Protection	IP21
	Dimension	102x77x33mm
	Weight	410gr

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