

Universal communication interface

GxySmart

GxySmart module is universal communication interface allowing connection of intruder alarm system Galaxy (Classic v.4.x, G3, GD) into the third-party software applications (i.e. AIViS, ABI). We are able to provide you communication protocol of GxySmart module for your own software solutions.



DESCRIPTION

Galaxy control panel controls and monitors set of detectors on several lines. The control panel must be connected to GxySmart module to be able to communicate with the PC. GxySmart module allow you to select address for connection to Galaxy control panel (GxySmart can emulate one of the E062, E054, E080 or A211 module). Integrated GSM channel allows both passive receiving of state information to your mobile phone and active controlling of Galaxy control panel using SMS messages.

Example of your own solution – Galaxy DDE server

Galaxy DDE server sends requests to GxySmart module. The GxySmart answers regarding the information from the Galaxy control panel. Communication between DDE server and GxySmart module proceeds in few second intervals and it is supervised. Interruption of communication channel is securely signalized.

PROPERTIES

- Connection on RS485 line 1 of Galaxy control panel
- Address selection of emulated module (E062, E054, A211 or E080)
- Communication with control software either using RS232 (9600 to 115 200 Bd) or TCP/IP
- Data transmission is secured against data damage CRC (CCIT)
- Protection against sabotage by overfull of communication line
- Integrated GSM channel for controlling, monitoring and reporting (firmware in progress)
- System display
- Easy and clear diagnostics – engineer button
- Possibility of basic local settings – engineer keyboard
- Monitoring of connection quality with intruder alarm control panel
- Detection of connected control panel (type, firmware version, language)
- External Watchdog
- Real time, control panel time
- Memory for 3000 events
- Failsafe function – correct end of module operation when power loss (backup accumulator needed)
- Protection against password guessing (optionally alarm activation on control panel)
- Tamper contact (can be used when the module isn't installed in control panel case)
- Monitoring of current consumption, primary, system and secondary power circuit
- Protection against polarity change
- Protection against 12V outputs overload
- 4 general inputs (NO, NC, EOL, DBL)
- 3 analog inputs (0-10V), optionally detection of limit borders overrun
- 2 transistor outputs – 400mA /12V
- 1 relay – 4A/230V

REPRESENTATIVE POSSIBILITIES OF COMMUNICATION PROTOCOL

- Control panel controlling (arming, partial arming, forced arming, disarming, arming interruption, alarm resetting)
- IAS outputs controlling (by type, by address)
- IAS zones controlling (bypassing, bypass cancel, text description change, zone attributes settings - soak test, partial arming)
- IAS groups monitoring (armed, disarmed, alarm, reset request, time lock, ...)
- IAS zones status monitoring (closed, opened, tamper – cable short, tamper – cable disconnected, anti-masking, bypassed, failure)
- Complete administration of IAS user accounts (codes, cards, access rights)
- Control panel time synchronization
- Monitoring of GxySmart general and analog zones
- Controlling of GxySmart outputs
- GxySmart configuration (zones settings, AD zones limit settings, RS232/TCP-IP communication interface settings, RS232 baud speed, reaction on port overfull, ...)

EVENTS

- Technologic events (AC loss, ACU loss, line fail, telephone line fail etc.)
- Access events (valid card, invalid card, refused card, forced doors, opened doors)
- Groups events (armed, disarmed, alarm, reset, alarm reset, arming fail, ...)
- Zones events (alarm, recovery, test, bypassing, bypassing reset, tamper, tamper recovery, ...)
- Analog zones events (set limit overrun)
- Other information events (automatic arming postponing, entry/exit to engineer mode, 6x invalid code, ...)
- Important GxySmart states (module start, entry to stand-by mode, power loss, high current consumption, ...)

TECHNICAL PARAMETERS

Communicator type	Integration module
Compatibilities	Galaxy Classic v.4.x, G3, GD
Connection to control panel	RS-485 line 1
Indication of communication with control panel	Yes, LED diodes
Interfaces	RS-232 or TCP/IP
Connectors	Terminal plate, RJ-45
Communication speed	9600 - 115200 Bd or 10/100 Mbit/s
Tamper contact	Yes
Dimensions (h x w x d)	123 x 175 x 38 mm
Rozměry (v x š x h)	123 x 175 x 38 mm

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