JA-190Y GSM communicator module

The GSM communicator module is intended to be used only with a JA-100Kxx security alarm control panel, which is a part of the JABLOTRON 100 series.

A control panel fitted with a JA-190Y uses a GSM network to communicate with an ARC, enables remote control via web and smartphone apps, transmits alarm SMSes and voice messages. It also enables remote configuration of the control panel using the F-Link SW.

Installing the module in the control panel

The module is to be installed directly on the control panel's motherboard using the connector for supplementary modules (see the control panel installation manual).

a) The control panel must be **disconnected from its entire power supply** (backup battery and mains electricity)

b) Insert the communicator into the system connector on the control panel (use a distance spacer (5) to stabilize it)

c) Connect the GSM antenna (included with the JA-190Y) to the connector (6)

d) Remove a sticker from the bottom of the connected GSM antenna and place it inside the control panel case (the exact place is shown in the *Control panel installation manual*).

Warning: The module must not be powered without an attached antenna!!!

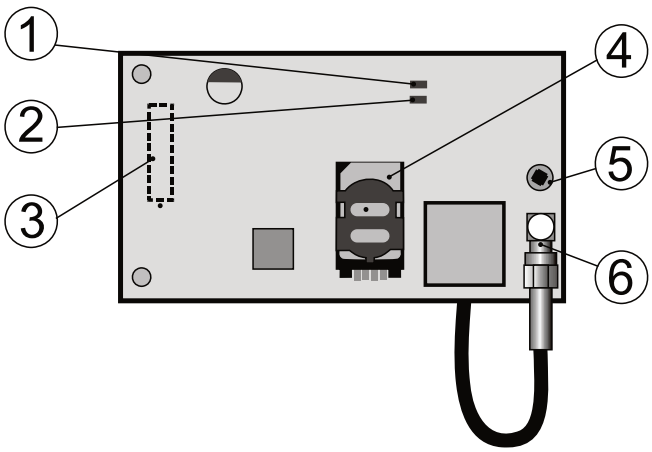

Fig. 1: JA-190Y communicator

Description: 1 - Red LED indicating an operating GSM network; 2 - Yellow LED error indication; 3 - System connector; 4. SIM card slot; 5 - Distance spacer; 6 - GSM antenna SMA connector

Communicator activation

If the communicator is installed in the control panel with its GSM antenna connected, then:

a) **Prepare a suitable SIM card.** It must be activated (test it using a mobile phone). SMS, DATA (GPRS), voice and CLIP (caller ID) services must be enabled. If the SIM card requires a PIN, **deactivate the PIN request** the first time you switch on the mobile phone. The communicator works with pre-paid cards, however a card with a tariff is recommended in order to provide reliable functioning.

b) **Insert the SIM card** into the communicator (push the SIM tray downwards and tilt it out)

c) **Connect the control panel's power supply** (backup battery and then the mains electricity). A **flashing red communicator LED** indicates connecting to a GSM network and will stop flashing within 1 minute = **connected**

d) If the indicator keeps flashing and the orange LED also turns on, then disconnect the power supply, insert the SIM card into a mobile phone and make sure the SIM card works correctly and doesn't require a PIN.

e) **Close the control panel case** while remaining in Service mode.

f) Configure the communicator settings using suitable SW (see the Control panel installation manual).

Warning: When used in border areas, a fluctuating quality of signal may force the module to use roaming which may increase communication costs significantly. This can be prevented by disabling the SIM card's roaming (ask the mobile network provider).

Technical specifications

Module power supply 12V DC (from the control panel)
Average current consumption approx. 40 mA (depends on GSM signal strength)
Peak current consumption 750mA
GSM communication band QUAD-BAND, 850/900/1800/1900MHz
Classification Security grade 2/Environmental class II

*(**Note**: this applies only in combination with a security-grade-2-certified control panel. For more info about ARC settings, see the Control panel installation manual)*

- *Conforms to* EN 50131-1 +A1 +A2, EN 50131-3, EN 50131-10 EN 50136-1, EN 50136-2, ANSI SIA DC-09, T 031
- Operational environment indoor general
- Operational temperature -10 °C to 40 °C
- Average operational humidity 75% RH
- SPT communicator type SPT type Z (control panel expansion module)
- AS/SPT interface Pass-through
- Supported ATS class/communication protocol:

ATS class [1]	ATS interface	Transmission protocol
SP2	GSM-SMS	JABLO SMS
SP3 - SP5	GSM-GPRS (IP)	JABLO IP ANSI SIA DC-09
DP4 [2]	LAN (IP) GSM-GPRS (IP)	JABLO IP ANSI SIA DC-09

Notes:

1. The ATS classes listed in the ATS interface configuration with a transmission protocol are the maximum of what is possible to declare when creating an alarm communication path. The operational classification has to be determined by the establisher after the ARC's agreement. The alarm communication path is created according to CLC/TS 50136-7 application guidelines.
2. DP4 is supported only in configuration with the LAN communicator.

Warning: LAN communication provided via WIFI or GSM is considered as radio communication therefore it is not possible to use a GSM communicator and a WIFI WAN network when a DPx path is created.

Explanatory notes:

SPx: One communication path to an ARC (Single path) = 1 transmission medium

DPX: Dual communication path to an ARC (Dual path) = 2 different transmission media, for example Radio communication (GSM) and Metallic or Optical cables (PSTN, LAN).

- Compatible with RCT (ARC receiver) according to communication protocols
- Certification body Trezor Test

Also complies with EN 60950-1, ETSI EN 301 489-1, ETSI EN 301 489-7, EN 55022, EN 50130-4, ETSI EN 301 419-1 and EN 301 511
Called ID (CLIP) ETSI EN 300 089
Can be operated according to CEPT/ECC/DEC/(04)06

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JABLOTRON ALARMS a.s. hereby declares that the JA-190Y is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use.

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