The GD-04K universal GSM communicator and controller

The GD-04K is a universal GSM communicator. It controls and / or reports the status of different appliances remotely. Control can be performed by SMS instructions or dialling in. The module is equipped with 2 power outputs with a status or pulse reaction. For status monitoring the GD-04K module has four input terminals which react to grounding (connecting to the GND terminal). Activation / deactivation of an input terminal can be reported as an SMS, dialling in or a combination of both these options to up to 100 authorised telephone numbers. The GD-04K can also be supplemented by a GD-04A backup battery which ensures powering the module when the mains is disconnected. The module allows configuration using a PC with installed **GD-Link 2.1.0** software (or higher) locally via the USB cable or remotely. It can also be configured by a programming SMS.

1. Using the GD-04K

The GD-04K module uses four inputs (A – D) for SMS reporting (optionally dialling) to predefined telephone numbers. It also offers 2 power relay outputs with options to control them by pre-defined SMS commands or by dialling in according to the settings from authorised numbers or from any (non-authorised) numbers.

Relay control:

- **by SMS instructions** which can be independently pre-set for switching ON / OFF each relay output. Both relays can work in *status* or *pulse mode*, the mode is selectable in the settings. If *pulse mode* is selected then based on an activation command the output will be switched for an interval between 1 s to 10 hrs.
- **Dialling in.** Both relays (X and Y) can be controlled by dialling in from a known telephone number. Up to 100 numbers can be stored in the communicator. The GD-04K doesn´t pick up an incoming call, but just verifies the caller's telephone number. If the caller's telephone number is authorised, the call is rejected and the relay is activated/deactivated as required (when the Impulse reaction is set then for a predefined time).
- **Dialling in with limited use**. While entering authorised telephone numbers the limit of their use can also be defined for each of them. When the usage limit of a pre-defined number is reached then any other calls are ignored. Reactivation can only be allowed by an administrator (by SMS). This function is suitable as a subscription for entrance to garages and so on.

Input status reporting:

- **Sending an SMS report** when some of the inputs (A – D) are activated / deactivated (connected or disconnected to / from GND). Each input has an option to edit the texts which are reported. An SMS can be sent to all telephone numbers stored in the communicator. For a higher alert notice an SMS report can also be followed by calling the numbers to which SMS reports have been sent.
- **Status monitoring**. By the SMS command "STATUS", the status of all inputs and outputs can be checked when needed. This way it is for example possible to check the status of connected devices for which each status change is not required to be reported.

Caution: *The GD-04K is not meant to be and is not certified as a security device to protect premises.*

2. Device description

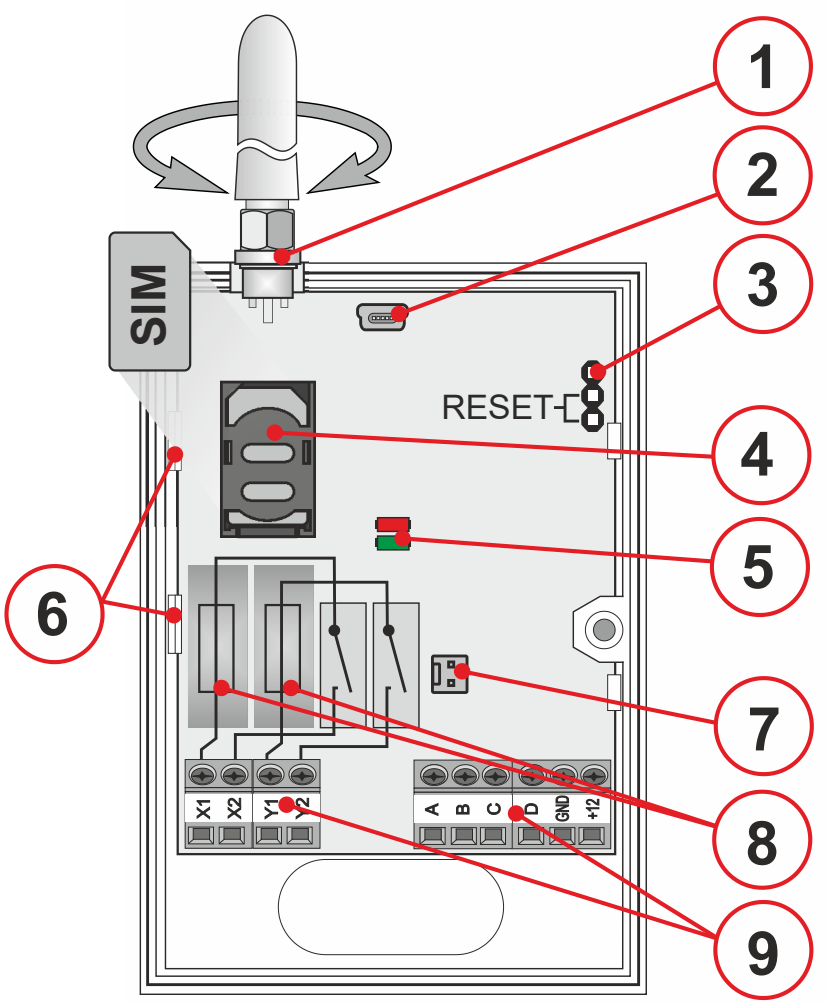


*Figure 1: **1** – GSM antenna; **2** – Mini USB connector for PC connection; **3** – Reset jumper; **4** – SIM card slot; **5** – LED indicators; **6** – Flexible tabs; **7** – Connector for backup battery – the GD-04A cover; **8** – Output relay fuses; **9** – Input / output and power terminals*

Terminal descriptions:

Low voltage terminals:

+12 V	Terminal for 12 V DC connection from included adapter (or another external power supply which provides a current of at least 0.5 A)
GND	The common terminal for inputs A, B, C, D and GND for 12 V
A, B, C, D	input terminals:

– Inputs react to connection or disconnection to / from the GND terminal.

- All inputs have their own time filter (from 0.5 to 10 hrs)
- A maximum of 30 V can be connected from an external device to the input terminals (A – D).
- Each input can have its own name. Input activation / deactivation is reported to the pre-defined telephone numbers and also recorded in the event history. Up to 384 events can be stored with information about input or output activation / deactivation with the source of that event (who / what caused it).

Power terminals:

X1, X2 (RELAY X) NO contact of the power relay, 230 V / 2.5 A.

Y1,Y2 (RELAY Y) NO contact of the power relay, 230 V / 2.5 A.

LED indicators:

Red indicates GSM module incoming activity

Green indicates GSM module outgoing activity + RESET indication

Common properties:

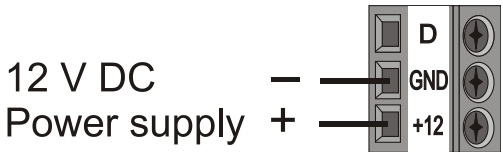
- Both outputs (X and Y) can be switched ON independently for a pre-defined time in an interval from 1 s to 10 hrs (impulse) or permanently.
- Both relays are galvanically separated from the communicator circuits complying with 4 kV safety isolation requirements.
- Both outputs (X and Y) are backed up when the backup cover is used and mains dropout occurs

3. Installation and initial setup

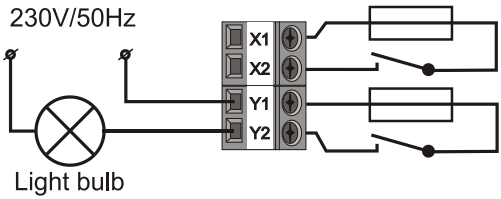
1. Select an appropriate place for communicator installation considering the GSM signal strength.
2. The communicator´s main board can be simply released by pressing the flexible tabs (6) when you open the front cover.
3. Attach the rear plastic part to the selected place.
4. Put the main PCB back onto the rear plastic part.
5. Insert the SIM card – orientation is indicated on the PCB (See also chapter 8. SIM card and its use)

   Note: *The GSM antenna mustn't be shielded by metal objects. The original antenna can be replaced by an external one meant for the GSM band 900/1800 MHz and equipped with an SMA connector, connected by a coax cable with a 50 Ω impedance if needed.*
6. Connect the input / output and power wires to the communicator´s terminals.

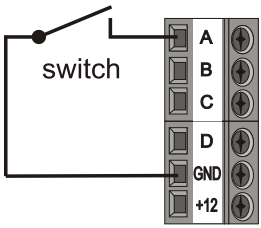
   Power: Connect the supplied mains adapter to the +12 V and GND terminals (the wire with a grey stripe is for the +12 V terminal). When another power supply is used, it must provide 12 V DC and a current of at least 500 mA. Don´t turn it on yet.



Relay output contacts: These are connected to the terminals labelled X1, X2 and Y1, Y2. Each output is protected by the 5 A fuse. Example: Bulb control by relay Y:



Input terminals: labelled as A - D react to (and send an SMS) connection to / disconnection from the GND terminal. Example: a switch connected to the A input terminal:



4. The GD-04A backup cover

In the case of AC failure an optional GD-04A module (a backup battery is inside the bigger cover) provides 12 to 24 hours of back-up time. The exact time depends on the GSM signal strength (the stronger the signal is, the lower consumption the device has).

- The 2-pin connector (7) on the GD-04K module serves for connection of the backup cover.
- The built-in battery is charged from the main unit and is fully charged in approximately 72 hours.
- The backup module only supplies the GD-04K communicator and its output relays. However it doesn´t supply external devices connected to the +12 V terminal.
  - The GD-04K module sends the SMS report “POWER FAILURE” in the case of a mains failure or disconnection after 30 minutes and “POWER SUPPLY RESTORED” when the mains is recovered after 5 minutes to all service telephone numbers (see the 6. Settings chapter). Both texts are editable.
- If the backup battery is discharged the module is shut down (both relays are switched off). When the mains power is recovered the relays’ previous status is restored and the backup battery is charged.

5. Initial powering up

1. Turn the power on, the red LED starts flashing to indicate logging the module on to the GSM network (if it doesn´t, check the power supply connection).
2. The red LED indicator goes off when the device is logged into the GSM network (it takes typically 1 minute). When it keeps flashing, there is some problem blocking the

logging in (turn the power off and check if the SIM card is inserted properly, if it has been activated and if there is enough GSM signal strength).

3. Send the SMS command: **STATUS** from your cell phone to the SIM card inserted into the GSM communicator.
4. **The communicator answers by SMS** like this: **STATUS: A0,B0,C0,D0,X0,Y0, GSM:80%, Vcc:12.1 V** (which means that all inputs and both relay outputs are deactivated / switched off, the GSM signal strength is 80% and the power voltage is 12.1 V). The response speed depends on current GSM network traffic. With no response, check if the text "STATUS" has been written correctly and sent to the correct telephone number.

6. Settings

6.1. Local setting using a PC

The most comfortable way of setting the GD-04K is by computer and **GD-Link 2.1.0** (or higher) software which allows loading, changing and saving the settings for later use. Programming SW is free for download from www.jablotron.com, in the section *For our partners / Downloads / Software*. The software requires a Windows XP operating system or newer. Follow the installation guide instructions during the installation procedure. A short cut to **GD-Link 2.1.0** SW on the desktop is generated when the installation procedure is done.

The software can also be used for firmware upgrades, more than only for setting up the GD-04K module. When connected to the Internet, GD-Link version 2.1.0 (or higher) checks whether a new version of the GD-Link is available. In such a case an update is offered immediately (optional setting). The current FW which is part of the GD-Link package is also downloaded and once the GD-04K is connected to the PC an automatic upgrade is offered. This ensures SW compatibility with the PC and the FW in the GSM dialler is always up to date. A FW upgrade can be performed also manually by clicking on the option *Device / Firmware update from the file*.

Connection procedure:

- Connect a PC using the supplied USB cable with the miniUSB connector (2) on the communicator´s main board.
- Start the **GD-Link 2.1.0** SW or higher.
- According to the settings, the required action in the initial window can be chosen or the communicator is connected automatically.
- If the setting is modified offline without a connected GD-04K, then to go online press the button "Online" on the upper toolbar when the unit is connected.

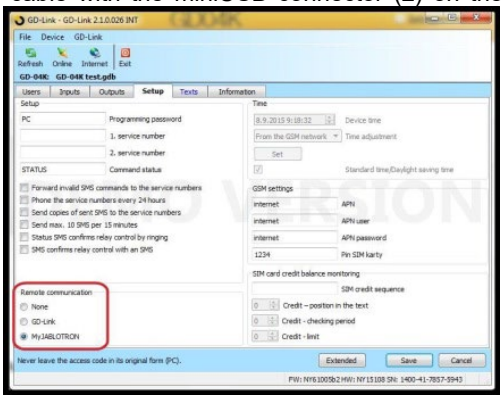


Figure 2

The software includes 7 tabs:

Users	A tab to set up to 100 users with telephone numbers, reports and authorisation to control.
Inputs	A tab where all parameters related to inputs A, B, C, D can be configured such as texts for reporting via SMS, etc.
Output	A tab where all parameters related to the X and Y outputs can be configured such as texts for controlling the outputs, reactions, etc.
Settings	A tab which includes advanced settings of the communicator, for example service telephone numbers, pre-paid SIM card credit balance checking, etc.
Texts	A tab meant for editing system texts reported via SMS according to user requirements. Default texts are in the English language.
Information	A tab where production codes and the registration key are stored. The reg key is necessary to perform remote access via **GD-Link 2.1.0** software (or higher).
Events	Displays the event history with the date of creation and source of event.

Note: *For detail descriptions of all options the software has Tooltips. They are visible when you move the mouse cursor over any parameter.*

6.2. Remote access using a PC

The GD-04K device can be also configured by a PC using **GD-Link 2.1.0** (or higher) software remotely through the Internet. For that it is necessary to know the registration code and telephone number of the SIM card used in the communicator (figure 3). To establish a remote connection with a device use the “Internet” button in the upper software toolbar.

To perform remote access and subsequent settings using the GD-Link SW it is necessary to allow one of the following options. See Settings → Remote communication, and here set GD-Link or MyJABLOTRON (see figure 2).

Warning: *During remote access via the **GD-Link 2.1.0** SW GPRS data is used, which can be charged by your GSM provider. Therefore before performing remote access check the GPRS data payments details with the GSM provider.*

Remote programming allows all parameters to be set as if you are connected locally using a USB cable.

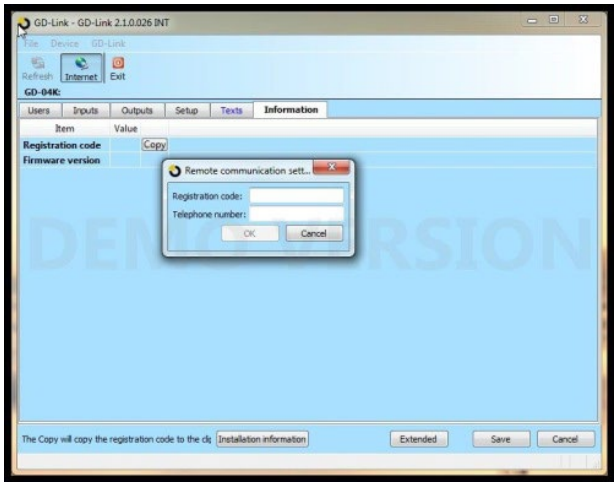


Figure 3

6.3. Remote setup using the MyJABLOTRON application

Full programming of the GD-04K GSM module options is also available via the MyJABLOTRON application. To perform a setup, go to Settings → Configuration (figure 4).

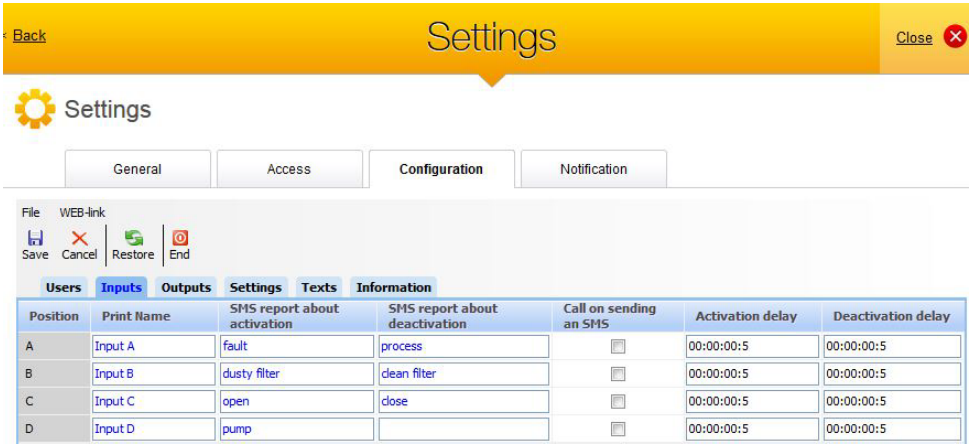


Figure 4

Access to MyJABLOTRON (device registration and account creation) can be performed by a user on his own or by the installation company who installed the GD-04K module.

Registration procedure:

1. Using GD-Link SW open Remote communication settings and select the parameter MyJABLOTRON (see figure 2).
2. Go to www.jablotron.com, and choose MyJABLOTRON.
3. Click on the button “Register a new device” located on the bottom of the page. It starts a new registration wizard.
4. Proceed according to the instructions.

During registration you can login to an already existing account or you can create a brand new account.

6.4. Remote setup using the setup webpage

The GD-04K module can also be programmed with limited options by the setup webpage david.jablotron.cz/gd-04/ where you can fill in the basic parameters and send those settings to the communicator. Options marked in red are not supported by the GD-04K.

The setup page allows you to send only a new setting, but it is not possible to read a current setting from a device. That´s why we strictly recommend you to save the current settings ready to be sent to the GD-04K before leaving the web page (“Save the settings in your computer for future use -> Save”).

When the communicator receives a new setting then a factory RESET is performed and the setting is uploaded. All programming options which are not filled in will be erased. Therefore it is always necessary to fill in all the required options not only the one which is to be changed. The best way of programming the GD-04K remotely is by using **GD-Link 2.1.0** software and higher, see chapter 6.2.

6.5. Setup using SMS

The GD-04K basic functions can also be programmed by SMS instructions, see the example:

PC, ARX, heating ON, DRX, heating OFF

where:

PC is the password, every programming SMS has to begin with (default password is PC, it can be changed, maximum 2-30 characters, no diacritics)

, is a comma which separates every instruction or command form

ARX is the instruction for relay X to be switched ON, followed by a comma

DRX is the instruction for relay X to be switched OFF, followed by a comma

This programming SMS sets up the X relay to be switched ON / OFF by the SMS commands “heating ON” and “heating OFF”.

An overview of all programming instructions is given in **table 1** (at the end of this instruction manual).

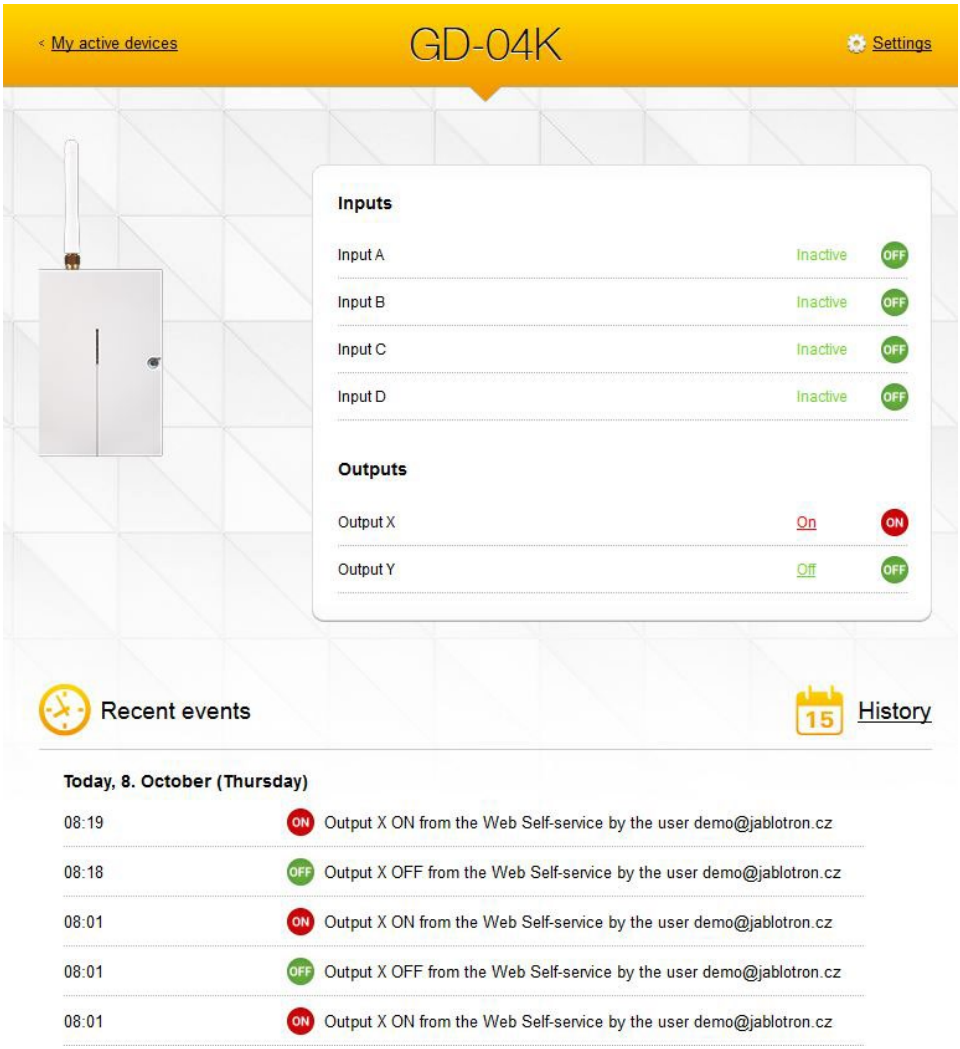
Rules valid for configuration SMS instruction use:

1. If you want to send more than one programming SMS, then every SMS has to begin with a valid password.
2. More instructions can be included in one programming SMS. The device can manage a “long SMS” and it means that a programming SMS can include up to 2400 characters with no diacritics or 1050 characters with diacritics.
3. Every instruction has to be separated by a comma and none must be put at the end of the instruction command.
4. Spaces in the programming SMS are ignored except the spaces in programmed texts.
5. When a programming SMS is received and processed, the GSM communicator answers back with PROGRAMING OK (this text can be edited).
6. If the GSM communicator detects a syntax error in the received programming SMS it answers with PROGRAMING ERROR (this text can be edited) and forwards the invalid syntax back to the sender. All valid instructions are performed and the unrecognized part of the texts is ignored.
7. Capital and small letters are treated equally.
8. Diacritics are also not recognized.
9. After a programming SMS has been received the GD-04K switches off both relays (X and Y).

7. Remote control

7.1. Relay remote control using MyJABLOTRON application

The web application called MyJABLOTRON gives you the highest comfort of controlling appliances from your PC, tablet or smartphone. For smartphones equipped with the operation systems iOS (iPhone), Android or Windows Phone a smart application also called MyJABLOTRON is available.



Thanks to this app the user can control outputs, check their status and also the status of the inputs, browse the history and manage the whole device remotely. Any action performed by MyJABLOTRON is immediately confirmed so the user has immediate feedback about successful command performance. Via MyJABLOTRON access tothe GD-04K module can be shared with other pre-defined users.

Note: It is necessary to setup the GSM module and its registration to MyJABLOTRON to access it via the application (see chapter 6.3).

7.2. Relay remote control using SMS instructions

Text commands for controlling (switching ON / OFF) the outputs by SMS can be customized. Up to 30 characters can be used. Pre-defined texts are used as commands with the following conditions:

- The SMS command is without a password and must exactly match the predefined text. Capital and small letters are treated equally.
- Using **GD-Link 2.1.0** software (or higher) you can set for SMS and for dialling-in independently for each relay whether it can be controlled by anybody or only from authorised numbers stored in the device. Authorisation can be given especially for SMS and dialling in for every telephone number in a common list.
- Multiple SMS commands can be written in one SMS, commands are separated by a comma.
- **Example: HEATING ON, LIGHTS OFF, STATUS**
- The communicator confirms command processing by a confirmation SMS.
- An unrecognized SMS can be forwarded to the service number (see Settings).
- **When using an SMS internet gate** an SMS can have other text added to the wanted command. It is then necessary to mark the beginning of the command by the symbol % and finish with %%. For example an SMS with the text: **www: %heating on%% -- SMS sent by your GSM provider.** – is processed by the communicator to be the command: **heating on**.

7.3. Relay remote control by dialling in

It is possible to set telephone numbers to control output relays by dialling in. If this authorised number calls (rings), the relay reacts this way:

- If the relay has a pre -defined limited switching time (Impulse reaction) then on dialling in occurring it switches on for that time. If the switching time is set to zero, dialling in switches it ON until it is dialled in again then the relay switches OFF (or it can also be switched OFF by sending an SMS with a command meant for switching off).
- Using **GD-Link 2.1.0** software (or higher) you can set for SMS and for dialling-in independently for each relay whether it can be controlled by anybody or only from authorised numbers stored in the device. Authorisation can be given especially for SMS and dialling in for every telephone number in a common list.
- Up to 100 telephone numbers can control both relays if this option is enabled.
- For every telephone number you can set the maximum number of uses. When a pre-set limit has been reached, the telephone number can not be used to control anymore.
- Control by dialling in can only be realized by phone numbers with enabled caller ID visibility (telephone number is not hidden).
- Sending a confirmation SMS can be set to happen when the relay has been controlled by dialling in.

8. SIM card and its use

- A normal 2G SIM card from any provider can be used. When remote access by the GD-Link SW is required or management by the MyJABLOTRON application then ask your authorised Jablotron distributor to recommend a reliable SIM card with an adequate data tariff.
- Before you start using the SIM card with the GSM communicator, check the SIM card's functionality in your cell phone by making a call (not just dialling in) and send an SMS.
- Disable the PIN code requirement on the SIM card or pre-set its PIN code to 1234.
- Check the GSM signal strength at the installation place.

It is not recommended to use pre-paid SIM cards, because it increases the risk of failure because of exhaustion of credit or expiration of credit validity.

If you do decide to use a pre-paid SIM card, the device can check the credit balance automatically. The communicator checks (at a pre-defined frequency) the credit balance and if the credit is lower than the preset minimum, then the current credit balance is forwarded to the service telephone number. For correct functioning it has to be set according to the parameters given by your GSM provider. Setting is performed by the instruction:

PC, CRD, xxxx, dd, hhh, pp

where:

PC is the programming password

CRD is the command for getting the credit balance

xxxx is the USSD command for credit balance requirement, depends on the GSM provider

dd is the period, how often the credit balance is checked (in days)

hhh is the minimum credit balance

pp is the position of the credit info in the text in the GSM provider's answer

***Example**: To check for a minimum credit of 30 EUR once a week set like this:*

PC, CRD, *104*#, 7, 30, 1

To check the current credit balance use the SMS command:

PC, CRD

To erase automatic credit balance checking, program all options to 0, this way:

PC, CRD, *104*#, 0, 0, 0

***Warning**: The examples mentioned here for credit balance checking might not work if the GSM provider changes their format. Check the way to get a credit balance and in which format the GSM provider answers the request.*

9. Factory reset

Can be performed remotely by the SMS instruction **PC**, **RST**, where PC is the programming password – see table 1.

Another option is to perform it using the RESET jumper (placed next to the SIM card holder).

- Turn the power off (backup cover as well, if used).
- Put the jumper on the RESET pins
- Turn the power on (green LED starts flashing) and
- Wait until the LED indicates permanently (after approx. 5 sec), then take the jumper off the reset pins.

When a reset is performed all settings are erased, including telephone numbers and texts.

10. Technical specifications

Power	*10.5 ÷ 15 V DC*
Quiescent current consumption	*approx. 25 mA (+17 mA per relay)*
Max. current consumption during GSM communication	*200 mA*
GSM module operation band E-GSM	*850 / 900 / 1800 / 1900 MHz*
GSM RF output power	*2 W for GSM 850/900* *1 W for GSM 1800/1900*
Triggering of inputs A, B, C, D	*connection to GND*
X and Y outputs load:	
- resistive load	*max. 2.5 A/250 V AC*
- inductive (capacitive), bulb load	*max. 0.5 A/250 V AC*
Environment	*II. Indoor general*
Operating temperature range	*-10 °C to +40 °C*
Average operating humidity	*75% RH, non-condensation*
Dimensions (no antenna)	*76 x 110 x 33 mm*
GSM antenna connection	*by SMA connector (antenna is included in the package of the product)*
Complies with	*ETSI EN 301 511, EN 62368-1, EN 55032, EN 50130-4, ETSI EN 301 489-1, -7, EN IEC 63000*
Can be operated according to	*ERC REC 70-03*

JABLOTRON a.s. hereby declares that the GD-04K 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: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

11. Table 1 – SMS programming instructions overview

A programming SMS always has to begin with the password (see 6.4).

***Example**: PC, ARX, heating ON, DRX, heating OFF*

Purpose / function	Instruction	Description	Factory settings
X and Y relay control			
SMS to switch relay ON	**ARX, xxx..x**	For relay **Y** enter **ARY, xxx..x** = text up to 30 characters, Erase text by entering **ARX,** ***Example:** ARY,ventilation ON*	None
SMS to switch relay OFF	**DRX, xxx..x**	For relay **Y** enter **DRY, xxx..x** = text up to 30 characters, Erase text by entering **DRX,** ***Example:** DRY, ventilation OFF*	None
Relay switch-on period	**TMX, t..t**	For relay **Y** enter **TMY, t..t** = switch on time in seconds or minutes (m) or hours (h) from 1 to 10 hrs (3600 = 60 m = 1 h). When time is set then the relay starts working as a timer switch, activated via switch-on SMSes or dialling-in, deactivated by time-limit expiration or via switch-off SMSes. When the time is set to 0 then relay behaves as a toggle contact: on, off, on, … ***Example**: TMX, 710123456, 5m*	0 (no limit)
Telephone numbers authorised for relay control	**ADX, x..x,x..x**	For relay **Y** enter **ADY, x..x** = tel. number, can be entered up to 100 tel. numbers (in a single instruction or gradually). The numbers are added to the list of authorised numbers. ***Example:** add new numbers for relay X control:* *ADX, 710123456, +420710234567*	None
Telephone numbers authorised for relay control with a validity limit	**LDX, x..x,n, x..x,n**	For relay **Y** enter **LDY, x..x, n** where: **x..x** = tel. number (up to 100 tel. numbers can be added), numbers are added to the list of authorised numbers, **n** = limit in the number of calls (1 to 99), exceeding the limit removes the number from the list and reports this to the service number by SMS “number erased”. ***Example:** add the numbers for relay X control for a maximum of 31 calls: LDX, 710123456, 31*	None

Erasing tel. numbers authorised for relay control	**EDX, x..x, x..x**	For relay **Y** enter **EDY, x..x** = tel. number (up to 100 number can be erased). ***Example***: erase telephone number for controlled relay X by dialling in: EDX, 710123456	None
SMS reporting initiated by triggering of the A – D inputs			
Input activation text	**ATA, xx..x**	For **B** input enter **ATB** etc., **xxx..x** = text, up to 30 characters To erase text: **ATA , ,** (no text = no activation reporting) ***Example:*** *ATC, heating on*	A1, B1, C1, D1
Input deactivation text	**DTA, xx..x**	For **B** input enter **DTB** etc., **xxx..x** = text, up to 30 characters To erase text enter: **DTA , ,** (no text = no deactivation reporting) ***Example:*** *DTC, heating off*	A0, B0, C0, D0
Telephone numbers for input reports	**TNA, x..x, x..x**	For **B** input enter **TNB** etc., **x..x** = tel. number, up to 100 for each input. All previously stored numbers are erased. To erase all numbers for input enter: **TNA,.,** ***Example:*** *TND, 710123456, 710234567, 710345678 sets the GD-04K to report input D events to 2 numbers*	None
Input – event calls	**DNA, n**	For **B** input enter **DNB** etc., **n** = 1 (ON), 0 (OFF). If set to ON, every SMS report is followed by a call. ***Example***: *DND, 1*	Disabled
Other functions			
New programming password	**NPC, xx…x**	**xx…x** = new programming password, from 2 to up to 30 characters ***Example:*** *NPC, MARTIN27*	PC
SMS to get GD-04K status – text change	**STS, xx..x**	**xxx..x** = text, up to 30 characters* ***Example:*** *STS, HOW ARE YOU*	STATUS
Service telephone numbers	**STN, x..x, x..x**	**xxx..x** = tel. number, Up to 2 numbers can be set, previously set numbers are erased. Service numbers are used to report faults: **POWER FAILURE** / **POWER SUPPLY RESTORED** **GSM RESTORED** (GSM signal recovery) Other events – see ***Optional functions*** To erase the service number enter: **STN,.,**	None

Optional functions	**DIP,a,b,c,d,e,f,g**	Parameter **a** to **f** values can be: 1=ON, 0=OFF, x=unchanged. Description of the parameters: **a** Forward unrecognised SMSes to the service number **b** Periodic calls to the service number every 24 hours (from the moment of being set) **c** Forward all SMSes to the service number **d** Max. 10 SMSes within 15 minutes (all subsequent SMS requests ignored for the next 1 hr) **e** SMS reporting of relay control by dialling in **f** SMS reporting of relay control by SMS (e.g. „heating OFF " OK **g** Not used (always enter 0) ***Example:*** *DIP,1,x,x,x,x,1,x*	0000000 All disabled
GSM module restart	**GSM**	The GD-04K will log out and then log in to the GSM network. This can be useful after a blocked SIM card has been unblocked. A restart is also triggered by briefly connecting the RESET jumper while the GD-04K is being powered up.	
Information about the communicator	**PC DINFO**	Module sends back the SMS with information about HW, FW, registration key, GSM signal strength and also IMEI.	
Reset	**RST**	Resets the GD-04K to the factory default settings – it can also be performed by connecting the RESET jumper during powering up - (disconnect the jumper after approx. 5 s)	

NOTES:

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