

GSM-DIN3

GSM Communicator

Instructions: January 5, 2013, refers to the firmware version: 1.014

Through GSM-DIN3 communicator can be remotely controlled such as lighting, pumps, garage doors and gates.

May indicate a faults, loss of liquid in tanks, emergency conditions, reboot servers or simply using a suitable sensor watch objects, spaces and objects.

All easily through standard mobile phone Setup is very simple – just store phone numbers to which is to be sent and which authorized to communicate with the communicator.

Furthermore, the protocol allows you to edit text (commands), and define a number of properties that all with the aim of maximum adaptation to your application.

The options are twofold: either via USB-PC or SMS commands.

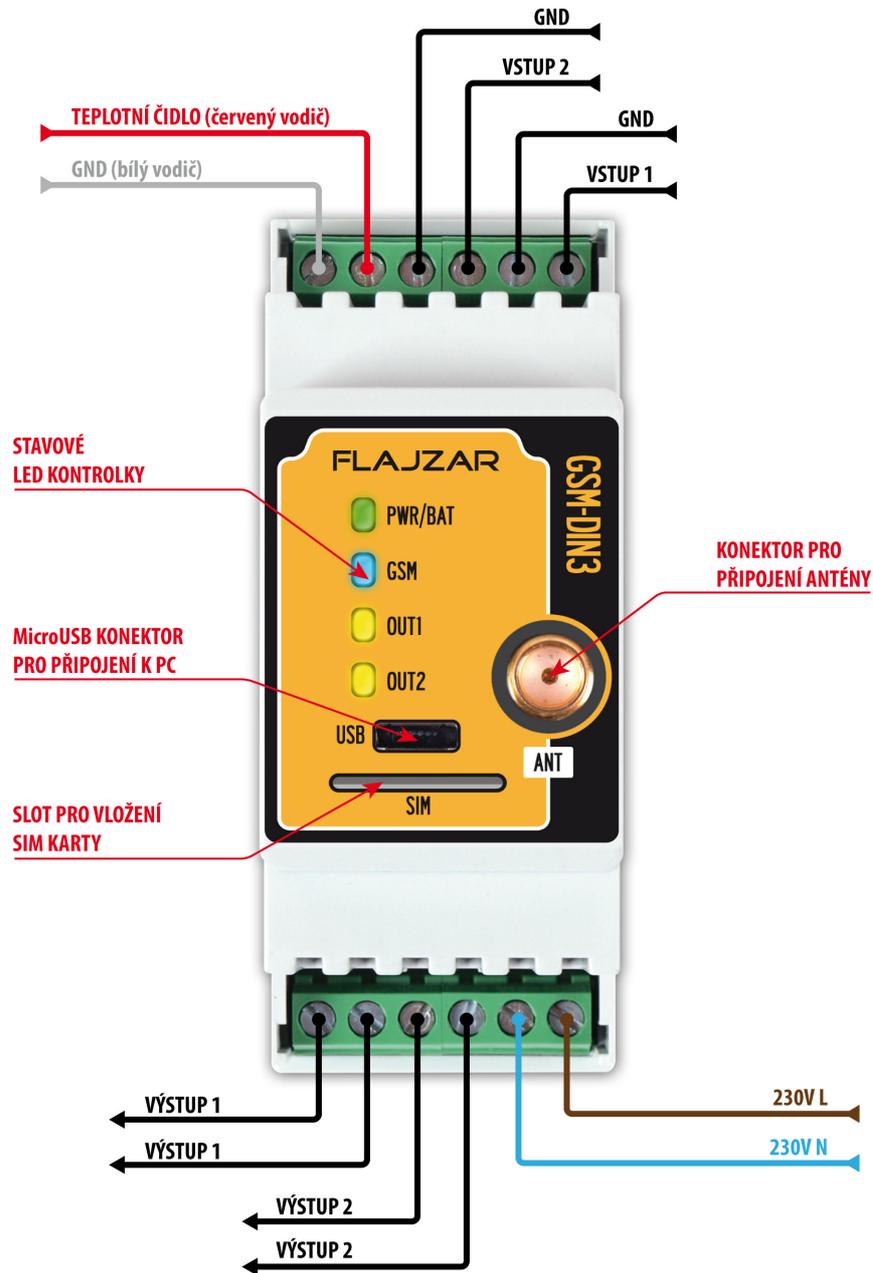


Basic specification

- GSM-DIN3 communicator dimensions: 90 x 36 x 58 mm (H x W x D)
- GSM/GPRS Quad Band 850/ 900/ 1800/ 1900 MHz
- Power supply voltage: 230V AC
- The communicator is backed up by internal Li-ion battery 3.7 V/550mAh
- Current consumption – communicator connected to network: approx 10 mA, relays on 100mA, battery charging 300mA
- Max current consumption (GSM module transmits): peak of 500mA max.
- Operating temperature: -20°C to +50°C
- 2 logic inputs, active level GND.
- Input is designed for connection of potential-free contacts!
- 1 input for digital temperature sensor with a measuring, range from -20°C to 125°C.
- (Temperature sensor sold separately with cable length 2m and 5m)
- 2 relay outputs 230V with load max 5A
- USB-PC configuration with USB cable (cable include in package)
- GSM-DIN3 is designed in a dry environment. For outdoor installation, use the box with corresponding protection.
- 6 authorized phone numbers can be set up

Basic Features

- Two universal inputs with adjustable reaction to change, connection or disconnection of the loop.
- Inputs can be named (SMS text).
- Each input can send 2 different TXT for remote status equipments
- Inputs can be use for arming/disarming the communicator from remote device
- Inputs option for entry and exit time
- In case it is necessary to have an input permanently enabled (the watchdog state), can be switched into mode 24h. loop.
- Input for digital temperature sensor with automatic output control (thermostat).
- Information SMS in case of exceeding the set temperature or the temperature drops below the set limit.
- Device Status, you can always check the status via SMS.
- Easy configuration USB-PC software or SMS commands



LED indicator:

PWR/BAT (Yellow,Green)	<p>Yellow ON-main240V connected Yellow OFF-main240V disconnected Yellow flashing slowly-backup battery low voltage main 240V disconnected</p> <p>Green flashing slowly - the communicator is arm * Green OFF – communicator is disarm * Green flashing fast- entry or exit time indication</p>
GSM (Blue)	<p>Blue ON - GSM is not ready / no signal Blue flashing rapidly - a weak signal (<20%) Blue flashing slowly - a good signal</p>
OUT1 (Yellow)	<p>Yellow ON-output ON Yellow OFF-output OFF</p>
OUT2 (Yellow)	<p>Yellow ON-output ON Yellow OFF-output OFF</p>

* The communicator is arm means that the logic input mode ARM / DISARM is Armed

Normal operating status:

•Green LED flashes (ARM), blue LED flashes (device has GSM signal).

Process or the inability to start up networking, respectively. another problem:

•The PWR/BAT and blue GSM ON.

DIN-3 Communicator Installation

The GSM Communicator DIN3 series is user friendly and easy to set up. Mounting position determines the orientation of the front plate (side input power supply and relay outputs downwards).

Warning: Since this is a device powered from 230V mains voltage should always be installed with appropriate professional with qualifications. Recommended wire cable for power supply: 2 x 1 mm²

DIN-3 Communicator Activation

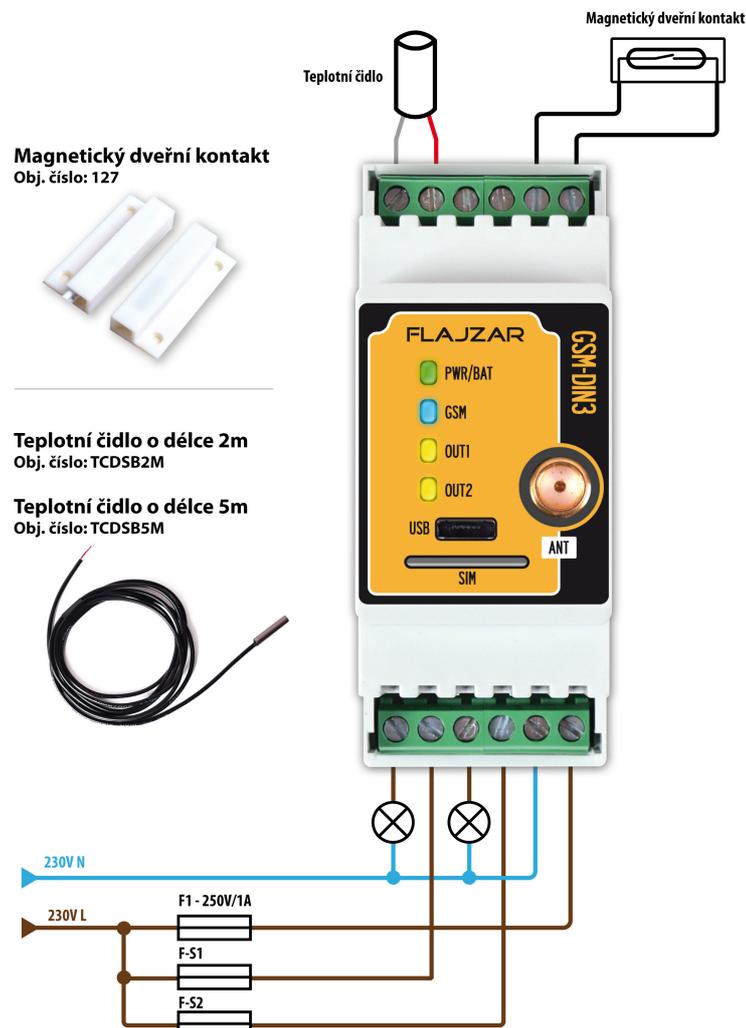
GSM DIN3 is activated by inserting SIM card! If no SIM card is inserted, the device will not work and will not operate and can't be configure through PC.

Before the first start is recommended to fully charge the internal back up battery with connection to mains voltage 230V, or USB cable to the PC. Charging the internal battery is possible even without a SIM card.

1. Before connecting the power, connect the corresponding GSM antenna.
2. After connecting the power supply and SIM card, the module will go undergo a self-test cycle. While in this cycle, the PWR/BAT and GSM Led's continuously on. After unit successfully connects to the GSM network the blue GSM LED will flash and PWR/BAT continuously on. Now the unit is ready for programming.
3. Send TXT report command to the unit 1234 stat? If the command was correct, you will receive a TXT confirmation containing GSM signal strength. If the GSM signal is not sufficient (below 40%), the move unit to better GSM signal area or use of an external aerial.



Example of DIN-3 Communicator Connection



Installation of PC configuration software DIN-3 config

- Download from the website www.flajzar.cz configuration program DIN3 GSM-config. under DIN-3 product page downloads
- Run the installation program and follow the instructions of the setup program.

Installation requires connecting the GSM-DIN3 via USB cable (included in package) to your computer.

- After installation, the desktop icon is created DIN3 GSM-config, the default password for the program and the communicator is 1234

Basic configuration window

The screenshot shows the 'GSM-DIN3 config v1.0' window. At the top, there are menu options: 'Soubor', 'O programu', 'Jazyky', and 'Průvodce'. The main area is divided into several sections:

- Název zařízení:** 'DIN3 HLASI:'
- Systémový čas:** '30.07.2012 12 41 04' with a 'Synchronizovat' button.
- Nastavení telefonních čísel:** A table with columns for 'Vstup' (1, 2) and 'Výstup' (1, 2), and rows for '1. tel. číslo' through '6. tel. číslo'. The first row has '+420123456789' and checkmarks in the 'Vstup 1' and 'Vstup 2' columns.
- Heslo:** Fields for 'Staré heslo:', 'Nové heslo:', and 'Nové pro ověření:'.
- Vstup 1:** 'Text SMS: ALARM VSTUP 1', 'Změna stavu' dropdown, '24h smyčka' dropdown, 'Zpoždění: 0,2', 'Sepnout relé 1' checkbox, and 'Blokace 15' checkbox.
- Výstup 1:** 'Info SMS: RELE1', 'Potvrzení: Volat SMS' checkbox, 'Příkaz ON: RELE1 ZAP', 'Příkaz OFF: RELE1 VYP', and 'Časovač: 00:00:30'.
- Vstup 2:** Similar to Vstup 1, with 'Text SMS: ALARM VSTUP 2'.
- Výstup 2:** Similar to Výstup 1, with 'Info SMS: RELE2'.

At the bottom, there is a status bar showing 'T-MOBILE CZ', signal strength, '001.001CZ', 'PŘIPOJENO', '0%' battery, and an 'Uložit do zařízení' button.

Advanced configuration window

The screenshot shows the 'GSM-DIN3 config v1.0' window with advanced configuration options. The main area is divided into several sections:

- Stav po startu:** 'Hlídnání vstupů: Poslední stav', 'Relé 1: Poslední stav', 'Relé 2: Poslední stav'.
- Nastavení SMS příkazů:** 'Aktivace: ARM', 'Deaktivace: DISARM'.
- Příchodový a odchodový čas:** 'Příchodový čas: 20', 'Odchodový čas: 20', 'Platí pro vstup 1' checkbox, 'Platí pro vstup 2' checkbox.
- Nastavení termostatu:** 'Horní mez: +20,0 °C', 'Dolní mez: +10,0 °C', 'Temostat ovládá relé 1' checkbox, 'Temostat ovládá relé 2' checkbox, 'Režim: Topení'.
- Servisní nastavení:** 'zasílat stavové zpravy: Den: 1, Hod: 11', 'Informace o překročení teploty: Horní mez: +30,0 °C, Dolní mez: +10,0 °C, Hystereze: 5', 'Výpadek napájení' checkbox, 'Nízký stav baterie' checkbox.

At the bottom, there is a status bar showing 'T-MOBILE CZ', signal strength, '001.001CZ', 'PŘIPOJENO', '0%' battery, and an 'Uložit do zařízení' button.

Setting of basic parameters DIN-3 communicator

Description of GSM-config DIN3

- The device name is used for naming-communicator. This name will be displayed at the beginning of each SMS that send GSM-DIN3.
- Phone numbers - GSM-DIN3 can communicate with up to six phone numbers with international code that you enter in this list
- Setting Phone Numbers – allocation for individual numbers setting
- Set input 1 and 2 - setting behaviour of inputs
- Set the output 1 and 2 - setting behaviour of outputs
- System Time - synchronisation time with PC
- Password - used to change the password for the program, and SMS commands (default password is 1234). To save the password, it is necessary to save the configuration, click Save to the device. Attention: The password must be four digits long and consist only digits.
- Bottom Status Bar - displays the GSM operator, the current status of the GSM signal and battery firmware version GSM DIN3 store and process configuration.

Advanced settings DIN3 GSM-config

- Starting value - setting the activation / deactivation, inputs and status outputs when communicator reset
- Entry and exit time- setting of timers
- Thermostat setting – setting of high and low limits include relay reaction
- ON/OFF commands- setting the SMS commands for arming and disarming inputs
- Service setting – setting of automatic status SMS and Information SMS temperature limits
- Power cut- if enabled, the service authorization numbers receive SMS in the event of a main power 230V failure
- Low battery - if enabled, the service authorization numbers receive SMS in case of low battery (25% or less)
- Temperature Sensor - if enabled, the service authorization numbers receive SMS in case of disconnection or failure the sensor

Table 1 – Phone Numbers

Inputs 1 and 2	Set input 1 or input 2 to the alarm receiving phone number
Outputs 1 and 2	Set the number to control output 1 or output 2 via call. Beware, this function is not compatible with the function of activation and deactivation calling option – see function below the A / D
Call	The alarm will be reported via call
SMS	The alarm will be reported via SMS
A/D	Control the activation and deactivation inputs via call. Beware, this function is not compatible with the output control call function.
Service	This number will receive service SMS reports*

* Service SMS by default: information on lost / restore 230V can also enable automatic sending of SMS status if exceeding temperature set limits

Table 2 - Setting of input1 and input2

Text SMS	Enter the text which will receive if alarm
Input reaction	Connecting- SMS alarm if input connected to GND, Disconnecting – SMS alarm if input disconnected from GND, Status Change – SMS alarm responding to connection and disconnection GND, ARM / DISARM – if input connected to GND, the communicator is disarm when not connected to GND, is arm.
Input mode	ARM / DISARM - SMS alarm is triggered only if communicator arm. 24 hours - input always send SMS (eg for the use of fire sensors, gas etc.).
Delay	Indicates how long must be GND connected or disconnected in input before SMS send out
Relay1 ON	When input activating SMS alarm input also switch output 1. The output reaction is subject to settings of output1
Block 15	The triggered input will be blocked to send SMS for next 15 minutes

Table 3 – Setting of output1 and output2

Text SMS	Text, which will contain SMS confirming the output status change .
SMS ON	SMS command which will switch the output ON
SMS OFF	SMS command which will switch the output OFF
Call confirmation	Tel. number, which switch output will receive confirmation via call back only if output is switched ON
SMS	Tel. number, which switch output will receive confirmation via SMS if any change status on output
Timer	If the timer time set to a value other than 00:00:00, the output will be switched ON via call or SMS only for pre set time. After the countdown timer, the output is automatically switched off. Time format "hours: minutes: seconds". Maximum duration of the timer is 10 hours. Ex. 0:30:00 is set for 30 minutes.

Table 4 – Service Report Setting

Automatic SMS	Will automatically send SMS at preset time to phone numbers which enable service SMS.
Day	Day determines which day will be SMS send. Ex. Day = 1 means that the messages are sent each day.
Hour	Specifies the hour in which the SMS will be send out. Ex. 14 means that the SMS is sent within 14 hours (2pm)

Table 5 – Setting of entry/exit time

Entry time	Delay timer before the SMS will be send out if the communicator not disarmed between this time. This function not work on 24 Hours input setting
Exit time	The delay starts if the pre set input (bellow) for Arm/Disarm activated table2 row 2 not work with SMS or call control. This function not work on 24 Hours input setting
SMS OFF	SMS command which will switch the output OFF
Apply for input1	Allow entry a exit time for input1
Apply for input2	Allow entry a exit time for input2

Table 6 – Thermostat setting

High limit	Set the temperature which will switch output OFF in heating mode and will switch output ON in cooling mode
Low limit	Set the temperature which will switch output ON in heating mode and will switch output OFF in cooling mode
Thermostat switch relay1	Assign relay output
Thermostat switch relay2	Assign relay output
Mode	Sets the thermostat in to heating or cooling mode

* The temperature can be controlled in the range of -20 to +99.9 ° C.

Table 7 – Setting the SMS temperature limits

Temperature info SMS	Will allows send SMS if the temperature reach the set limit
High limit	Set the temperature which will triggered SMS out if the reach set limit or higher
Low limit	Set the temperature which will triggered SMS out if the reach set limit or lower
Hysteresis	This setting determines the temperature at which the communicator will sends SMS Information about exceeding upper or lower limits again The temperature is the upper limit for the difference: the upper limit - hysteresis for the lower limit of the sum of: lower limit + hysteresis. Example: the upper limit is set at 35 °, the lower limit to 20 °, hysteresis at 5 °. When exceeding 35 °communicator will send SMS report about exceeding the upper limit, then if the temperature drops below 30 ° C and then rises above 35 ° C, it is again sent out the SMS report about exceeded the upper limit. If the temperature drops below 20 ° C, communicator will send SMS report about exceeding the lower limit, then if the temperature increase up 25 ° C and then drop below 20 ° C, it is again sent out the SMS report about exceeded the lower limit.

* The temperature can be controlled in the range of -20 to +99.9 ° C.

SMS Commands

Principles for using SMS commands:

- Each SMS command must include at the beginning the password. Eg. to determine the status send SMS: "1234 stat?"
- SMS commands are not case sensitive. Eg. command to determine the status, you can send STAT? / stat? / STat?
- If possible, always use the GSM-DIN3 PC configuration software, it's easy and intuitive

Reset a forgotten password:

- If you forget the password for SMS, you can reset default password (the default password is 1234) as follows:
- Send SMS to the number of the SIM card in GSM-DIN3, which contains only IMEI number.
- No password or command only IMEI number.
- Wait until the GSM-DIN3 blue LED will flash quickly (SMS was received)
- Remove SIM card within 20 seconds.
- GSM-DIN3 password is now restored to 1234
- If the SIM card not disconnected within 20 seconds after GSM-DIN3 receive an SMS with the IMEI number, password will not be restored.

Table 8 - SMS commands

STAT?	Determines the current status of the communicator (GSM operator, signal strength, temperature if the temperature sensor is connected and number of alarms since the last activation)
HIST?	List of alarm history from last activation
NPIN	Changes the password for the SMS commands. Example. "NPIN 1111" changes the original password to1111.
SET DEFAULT VALUES	Restores the default settings of communicator. The phone numbers is not deleted.
CLEAR ALL NUMBERS	Clears all programmed phone numbers.
NUMBER1	Stores the phone number to the list. Example.: NUMBER1 +642123456
NUMBER1 DELETE	Clears the number 1 from the list.
SNUMBER1 ABCDEF	Change setting for number1 see table 8
SETSYS ABCDEF	Change of system setting see table 9
SETIN1 ABCDEF	Change of digital input setting see table 10.
SETOUT1 ABCDEFGH	Change of output setting see table 11.
SETTHERM ABCDEFGHIJ	Change of thermostat setting see table 12.
SETTEMP ABCDEFGHI	Setting of monitoring temperature SMS limits see table 13.

Table 9 - Setting of telephone numbers

Command:	SNUMBER1 to SNUMBER6, send SMS: SNUMBERX ABCDEFGH
Parameter A	A=1 – input1 report alarms to phone number, A=0 – input1 alarms does not reported to phone number
Parameter B	B=1 – input2 report alarms to phone number, A=0 – input2 alarms does not reported to phone number
Parameter C	C=1 – phone number control output1 by dialling, B=0 - phone number not control output1 by dialling.*
Parameter D	D=1 – phone number control output2 by dialling, B=0 - phone number not control output2 by dialling.*
Parameter E	E=1 – alarm are reported to phone number via call, C=0 – alarm not reported via call.
Parameter F	F=1 – alarm are reported to phone number via SMS, D=0 – alarm not reported via SMS.
Parameter G	E=1 – phone number control activation and deactivation by dialling, E=0 - phone number not control activation and deactivation by dialling.*
Parameter H	F=1 – phone number receive service SMS, F=0 – phone number not receive service SMS.
Example :	SNUMBER1:10000101 means that the number one receives alarm information from input 1, dial control output is off, the alarm reported via SMS, dial control ARM/DISARM is off, service SMS activated

* The call control can operate output s or the activation / deactivation of the communicator. These functions can not be the used on the one phone numbers at the same time.

Table 10 - Automatic SMS status setting and the status after reset

Command:	SETSYS, send SMS: SETSYS ABCDEFG
Parameter A	A=1-Sending automatic status SMS enabled, A = 0 - automatic status SMS sending is disable.
Parameter B	Specifies which day SMS sent. You can enter 1 to 9
Parameter C	Tens of hours. You can enter 0-2. *
Parameter D	Units of hours. You can enter 0-9. *
Parameter E	E = 0 - communicator is arm after the restart, E = 1 - communicator is disarm after restart, E = 2 – communicator status is same like last status before restart.
Parameter F	F = 0 - output 1 is switched on after the restart, F = 1 - output 1 is switched off after restart, F = 2 - Output 1 status is same like last status before restart.
Parameter G	G = 0 - output 2 is switched on after the restart, F = 1 - output 2 is switched off after restart, F = 2 - Output 2 status is same like last status before restart.
Example:	SETSYS: 1111222 means automatic SMS enabled which is sent each day at 11:00 hours. After restart the communicator last status will be restored.

* Clock can be set from 0 to 23.

Table 11 - Digital input setting

Command:	SETIN1 or SETIN2 , send SMS: SETINX ABCDEF
Parameter A	A = 0 - input reacts to a connection to GND, A = 1 - input reacts to a disconnect GND, A = 2 – input reacts to the any change
Parameter B	B = 0 – input is subject to activation / deactivation communicator, B = 1 - input is a 24-hour loop (permanent watch).
Parameter C	Input delay – unit seconds. You can enter 0-9. *
Parameter D	Input delay - tenth seconds. You can enter 0-9. *
Parameter E	E = 1 - when the input is activated the output will switch , E = 0 - input activation does not switching output
Parameter F	F = 1 - after the input is activated the reporting will be blocked for 15 min, F = 0 – the reporting does not blocked
Example:	SETIN1 210201 means that input react to any change, input is under continuous monitoring (24h loop), delay input is 0.2 seconds, when input activated does not switch output and after an alarm input is blocked for 15 minutes.

* Input delay (transient treatment) can be adjusted from 0.2 to 9.9 seconds

Table 12 - Output settings

Command:	SETOUT1 or SETOUT2 send SMS: SETOUT1 ABCDEFGH
Parameter A	A = 1 – after the output switched on or off via dialling or SMS the unit will confirm switching via call back to the same number, A = 0 – unit does not confirm switching via call.
Parameter B	B=1 - after the output switched on or off via dialling or SMS the unit will confirm switching via SMS to the same number, A = 0 – unit does not confirm switching via SMS.
Parameter C	Timer output - tens of hours. You can enter 0-1. *
Parameter D	Timer output - unit of hours. You can enter 0-9. *
Parameter E	Timer output - tens of minutes. You can enter 0-5. *
Parameter F	Timer output - tens of minutes. You can enter 0-9. *
Parameter G	Timer output - tens of seconds. You can enter 0-5. *
Parameter H	Timer output - tens of seconds. You can enter 0-9. *
Příklad zadání SMS:	SETOUT1: 0100000 means that a change in the output is only confirmed by SMS, timer output is set to 00hour, 00minutes and 00 seconds.

* The timer output can be set from 0 to 10 hours. If you do not use a timer, ente value to 0

Table 13 - Setting the thermostat

Command:	SETTHERM, send SMS: SETTHERM ABCDEFGHIJK
Parameter A	A = 1 - thermostat controls output 1, A = 0 - thermostat does not control output 1
Parameter B	B = 1 - thermostat controls output 2, A = 0 - thermostat does not control output 2

Parameter C	Upper thermostat limit - mark. You can set the + or -
Parameter D	Upper thermostat limit - tens ° C. You can set 0-9. *
Parameter E	Upper thermostat limit - units ° C. You can set 0-9. *
Parameter F	Upper thermostat limit - tenths ° C. You can set 0-9. *
Parameter G	Lower thermostat limit - mark. You can set the + or -
Parameter H	Lower thermostat limit - tens ° C. You can set 0-9. *
Parameter I	Lower thermostat limit - units ° C. You can set 0-9. *
Parameter J	Lower thermostat limit - tenths ° C. You can set 0-9. *
Parameter K	K = 0 - thermostat is in the heating mode, K = 1 - thermostat is in cooling mode
Example:	SETTHERM: 01+320+2500 means that the thermostat does not controls output 1but output2 the upper limit is set to +32.0 ° C, lower at +25.0 ° C and the thermostat is in heating mode. In other words: the thermostat stops heating to 32.0 ° C and starts heating at 25.0 ° C.

* The temperature can be controlled in the range of -20 to +99.9 ° C.

Table 14 - Setting the SMS temperature limits

Command:	SETTEMP, send SMS: SETTEMP ABCDEFGHIJ
Parameter A	A = 1 - Exceeding temperature SMS information limits is ON A = 0 - Exceeding temperature SMS information limits is OFF
Parameter B	Upper limit of temperature monitoring - mark. You can set the + or -
Parameter C	Upper limit of temperature monitoring - tens ° C. You can set 0-9. *
Parameter D	Upper limit of temperature monitoring - units ° C. You can set 0-9. *
Parameter E	Upper limit of temperature monitoring - tenths ° C. You can set 0-9. *
Parameter F	Lower limit of temperature monitoring - mark. You can set the + or -
Parameter G	Lower limit of temperature monitoring - tens ° C. You can set 0-9. *
Parameter H	Lower limit of temperature monitoring - units ° C. You can set 0-9. *
Parameter I	Lower limit of temperature monitoring - tenths ° C. You can set 0-9. *
Parameter J	Hysteresis temperature setting ° C. You can set 1 to 9
Example:	SETTEMP: 0+300+1801 means that the exceeding temperature SMS information limits is OFF upper limit is 30.0, lower limit is 18.0 Again, sending SMS exceeding the upper limit is possible if the temperature drops below 29 ° C and lower limits when it goes above 19 ° C (set hysteresis).

* The temperature can be monitored in the range of -20 to +99.9 ° C.

Guidelines for Safe and efficient use

Please read this information before using your GSM Communicator. These instructions are intended for your safety. Please follow these guidelines. If the product has been subject to any of the conditions listed below or you have any doubt as to its proper function, make sure you have the product checked by a certified service partner before using it. Failure to do so might entail a risk of product malfunction or even a potential hazard to your health.

Recommendations for Safe use of product

- Always treat your product with care and keep it in a clean and dust-free place.
- Do not expose your product to liquid or moisture or humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not drop, throw or try to bend your product.
- Do not attempt to disassemble or modify your product.
- Do not use your product in an area where a potentially explosive atmosphere exists.

Disposal of old Electrical and Electronic Equipment

This symbol indicates that all electrical and electronic equipment included shall not be treated as household waste. Instead it shall be left at the appropriate collection point for recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Disclaimer

This device is designed for indoor use only unless protected in appropriate enclosure. The GSM Communicator is reliant on adequate GSM coverage. In the event of inadequate or no GSM coverage, FLAJZAR, s.r.o. cannot be held liable for any damages.

Do not attempt to take apart, open, service, or modify the hardware device. Doing so could present the risk of electric shock or other hazard. Any evidence of any attempt to open and/or modify the device, including peeling punching, or removal of any labels, will void the Limited Warranty.

Never pass security code or the mobile number of the GSM Communicator to an unauthorised third party.

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Warranty

Subject to the condition of this Limited Warranty, FLAJZAR, s.r.o. warrants this product to be free from defects in design, material and workmanship at the time of its original purchase by a customer. This Limited Warranty will last for a period of two year as from the original day of purchase and for a period of one year for all original accessories (such as microphone, GSM aerial). The warranty does not cover any damages caused due incorrect installation and use.

Technical Support

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