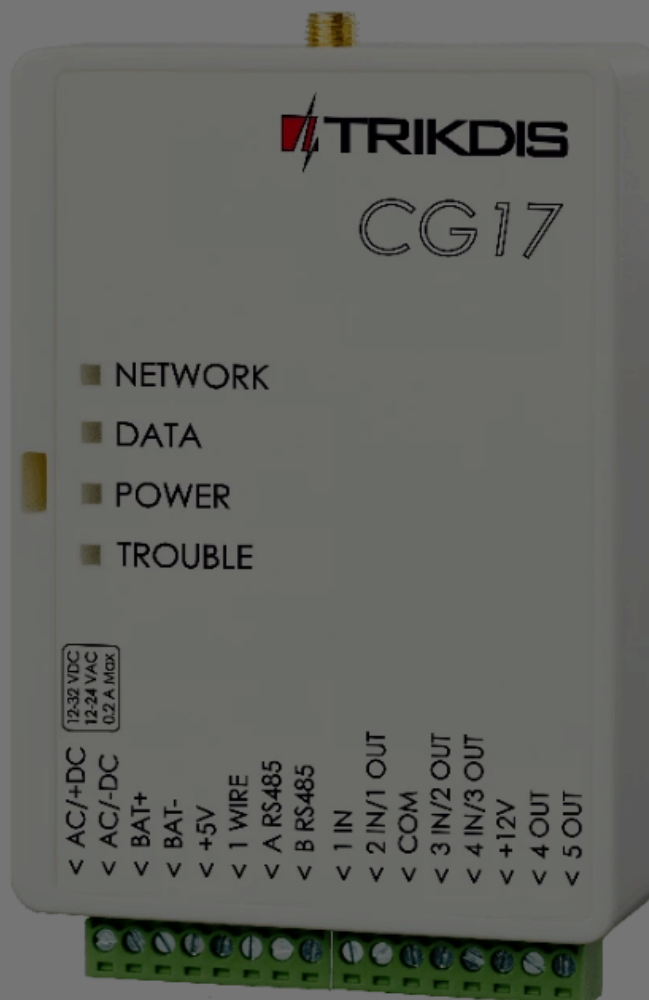


CONTROL PANELS

# Cellular security control panel CG17



## I. Description

CG17 is a multifunctional security control panel with an integrated cellular communicator.

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- Send event notifications to the receiver of a security company (CMS).

## 1.1 Features

Sends events to monitoring station receiver:

- Sends events to TRIKDIS software or hardware receivers that work with any monitoring software.
- Can send event messages to SIA DC-09 receivers.
- Connection supervision by polling to IP receiver every 30 seconds (or by user defined period).
- Backup channel that will be used if connection with the primary channel is lost.
- Events can be reported to CMS with SMS messages. SMS will be sent even if data connection stops working in the mobile operator network.
- When *Protegeus* service is enabled, events are first delivered to CMS, and only then are sent to app users.

### Works with Protegeus2 app:

- "Push" and special sound notifications informing about events.
- Remote system Arm/Disarm.
- Remote control of connected devices (lights, gates, ventilation systems, heating, sprinklers, etc.).
- Remote temperature monitoring (with iO, iO-WL or iO-LORA expanders).
- Different user rights for administrator, installer and user.
- Users can also be informed about events with SMS messages and phone calls.

### Notifies users about events:

- Calls specified phone numbers (up to 8 users).

- Sends SMS messages about events.

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- Using SMS messages.
- Using an automatic "*if...then*" algorithm. E.g. when an input is enabled or the temperature exceeds a certain limit, an output will be turned on.

### Supports these expanders:

- iO, LORA series wired or wireless expanders, which increase the number of inputs (IN) and outputs (OUT).
- GPS receiver (useful for protecting ATMs and vending machines).
- Fuel level sensor. For protecting fuel tanks or monitoring level.
- Backup power and charging of 12 V battery.

### Inputs and outputs

- 1 input, 2 outputs and 3 I/O terminals that can be set either as input (IN) or controllable output (OUT) terminals.
- One wire data bus (*1-Wire*) for connecting temperature sensors (up to 8) and a contact (*iButton*) key reader.
- Number of inputs (IN) or outputs (OUT) can be increased to 12 using iO series wired or wireless expanders.

### Simple installation:

- Default settings for use either as a control panel or as communicator.
- Settings can be saved to file and quickly written to other devices.
- Configuration either using an USB cable or remotely using TrikdisConfig software.
- Two types of access levels (accounts), for the installer and for the administrator.

## 1.2 Device types

This manual applies to these CG17 models:

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## 1.3 Specifications

Parameter	Description
GSM/GPRS modem frequencies	850 / 900 / 1800 / 1900 MHz
4G modem frequencies : Europe Latin America	- LTE-FDD Bands: B1/B3/B5/B7/B8/B20/B28 / - GSM Bands: B2/B3/B5/B8 / - LTE-FDD Bands: B2/B3/B4/B5/B7/B8/B28/B66 / - GSM Bands: B2/B3/B5/B8
Power supply [AC / DC]	16-24 V DC or 16-18 V AC
Current consumption	Up to 50 mA (stand-by), / Up to 200 mA (short-term, transmitting)
Backup power supply [BAT]	12 V lead – acid battery
Battery charge current	Up to 500 mA
Power supply voltage and current for external devices [+12 V]	12 V DC, up to 1 A
Dual purpose terminals [IN/OUT]	3, can be set as either NC, NO, EOL=10 kΩ, EOL_T type inputs or open collector (OC) type outputs with current up to 100 mA
Number of areas	8
No. of zones	4, (can be expanded to 12 zones using expanders)
No. of PGM outputs	2 (can be 5 if IO terminals are set as outputs. Can be expanded to 12 outputs with expanders)
“1-Wire” data bus length [1 WIRE]	Up to 30 m
Compatible temperature sensors	Maxim®/Dallas® DS18S20, DS18B20
Maximum number of temperature sensors connected to the “1-Wire” data bus	8
Compatible contact (iButton) keys [1 WIRE]	Maxim®/Dallas® DS1990A
Maximum number of contact (iButton) keys	12
RS485 data bus length	Up to 100 m
Maximum number of devices connected to the RS485 data bus	8
Supported keypad	Crow CR-16, Crow LCD, Crow touch keypad
Supported modules	iO-8 – expander module; / iO – expander module; / iO-MOD – iO-WL radio wave transceiver; / iO-WL – wireless expander module; / RF-SH – radio wave receiver for wireless sensors; / E485 – module for connecting to Ethernet network; /

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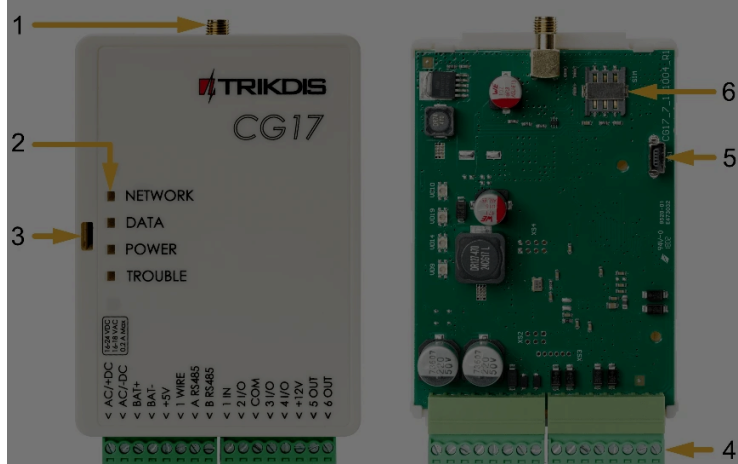
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Parameter	Description
Communication protocols	TRK, encrypted SIA DC-09_2007, SIA DC-09_2012, SIA DC-09_IPcom
Operating environment	From -10 °C to + 50 °C, relative air humidity up to 70% at 0- +40 °C (no condensation)
Dimensions	113x 70 x 25 mm
Weight	0.10 kg

## 1.4 Elements of the control panel

1. SMA type connector for Cellular antenna.
2. LED indicator lights.
3. Slot for opening the top lid.
4. Terminal blocks for external connections.
5. USB Mini-B port for programming the *CG17*.
6. Nano SIM card slot.



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## 1.5 Purpose of terminals

Terminal	Description
AC / +DC	Power supply terminal (16-18 V AC or positive 16-24 V DC)
AC / -DC	Power supply terminal (16-18 V AC or negative 16-24 V DC)
BAT+	Positive terminal of the 12 V backup battery
BAT-	Negative terminal of the 12 V backup battery
+5 V	Positive 5 V power terminal for "1-Wire" devices
1 WIRE	"1-Wire" data bus terminal
A 485	Terminal A of RS485 bus
B 485	Terminal B of RS485 bus
1 IN	1 <sup>st</sup> input terminal (default setting "Delay", zone type EOL)
2 I/O	Input / output terminal: 2 <sup>nd</sup> input terminal or output terminal of OC type. (default setting "Interior", zone type EOL)
COM	Common negative terminal
3 I/O	Input / output terminal: 3 <sup>rd</sup> input terminal or output terminal of OC type. (default setting "Instant", zone type EOL)
4 I/O	Input / output terminal: 4 <sup>th</sup> input terminal or output terminal of OC type. (default setting "Fire", zone type EOL)
+12 V	Positive 12 V power terminal for external devices
5 OUT	Output terminal of OC type (default setting "Fire sensor reset")
6 OUT	Output terminals of OC type (default setting "Siren")

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## 1.6 LED indication of operation

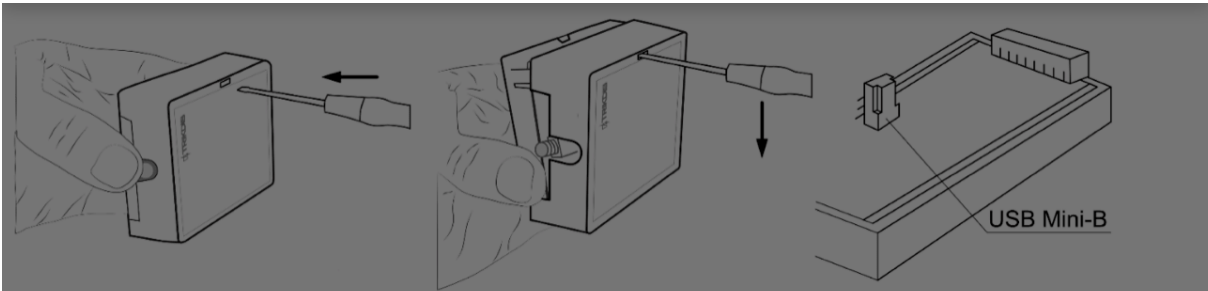
Indicator	Light status	Description
NETWORK	Green solid	Connected to Cellular network
NETWORK	Yellow blinking	Indication of Cellular signal strength from 0 to 5. Sufficient strength is 3.
DATA	Green solid	Message is being sent
DATA	Yellow solid	There are unsent events in the data buffer
POWER	Green blinking	The power supply voltage is sufficient
POWER	Yellow blinking	The power supply voltage is insufficient
POWER	Green and yellow blinking	Configuration mode is on
TROUBLE	Off	No operational problems
TROUBLE	1 blink	No SIM card inserted
TROUBLE	2 blinks	The PIN code of the SIM card is incorrect
TROUBLE	3 blinks	Unable to connect to Cellular network
TROUBLE	4 blinks	Unable to connect to the IP receiver using the primary channel
TROUBLE	5 blinks	Unable to connect to the IP receiver using the backup channel
TROUBLE	6 blinks	Internal clock of the CG17 is not set
TROUBLE	7 blinks	Insufficient power supply voltage from the backup supply
TROUBLE	8 blinks	No AC power
TROUBLE	9 blinks	Problems with the connection to the RS485 module

## 1.7 Components necessary for installation

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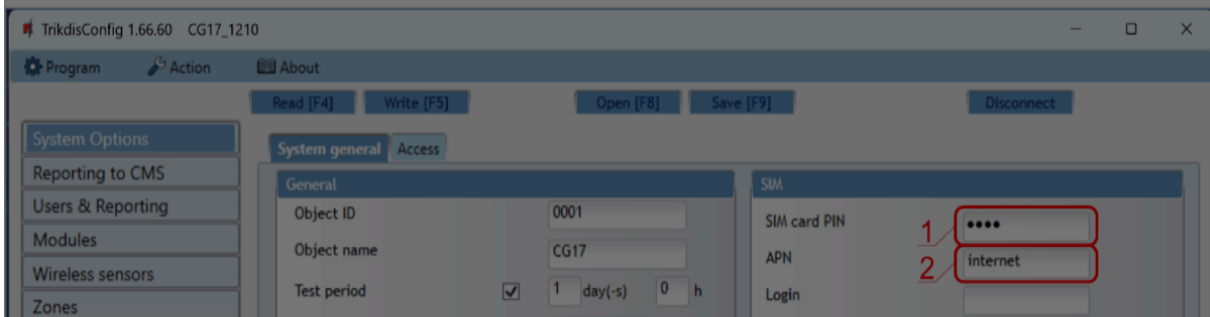


1. Using a USB Mini-B cable connect the CG17 to the computer.
2. Run TrikdisConfig. The software will automatically recognize the connected CG17 and will open a window for configuration.
3. Click **Read [F4]** to read the CG17's settings. If requested, enter the Administrator or Installer 6-digit code in the pop-up window.

Below we describe what settings need to be set for the communicator to begin sending events to the Central Monitoring Station (CMS) and to allow the security system to be controlled with the Protegus2 app.

## 2.1 Settings for connection with Protegus2 app

In "System option" window, "SIM" tab:

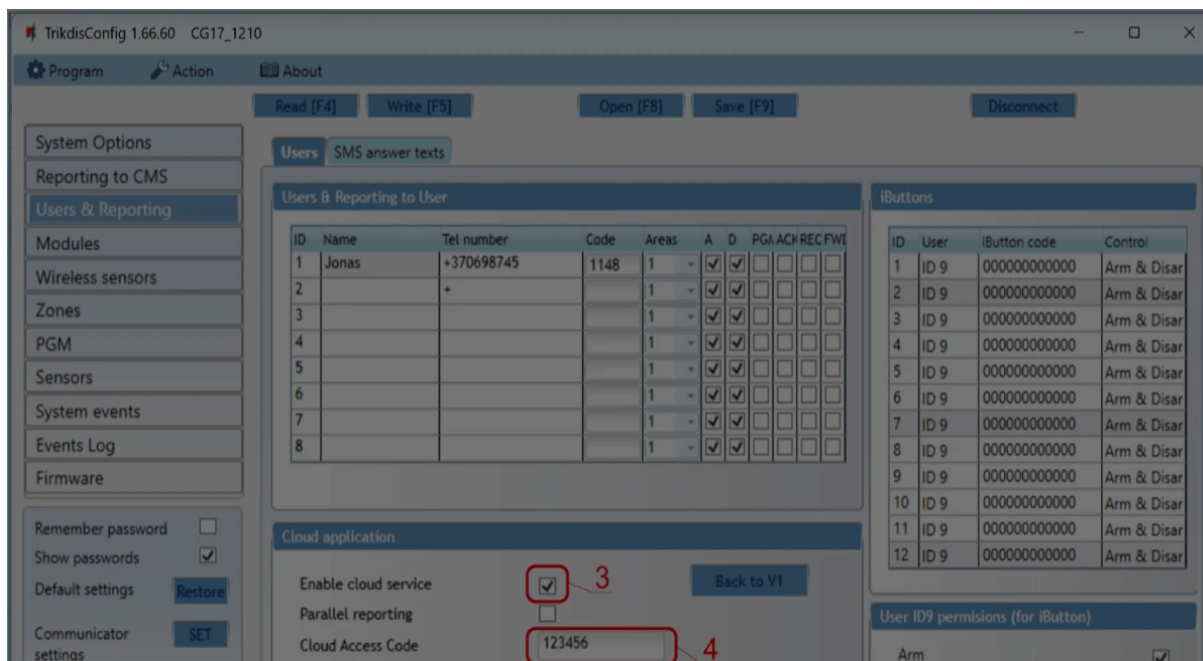


1. Enter „**SIM card PIN**“ code.
2. Change "**APN**" name. "**APN**" can be found on the website of the SIM card operator

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3. Tick the checkbox **“Enable cloud service”** to the Protegus Cloud.

4. Change the **“Cloud Access Code”** for logging in to Protegus2 if you want users to be asked to enter it when adding the system to Protegus2 app (default password – 123456).

After finishing configuration, click the button **Write [F5]** and disconnect the USB cable.

#### NOTE

For more information about other CG17 settings in TrikdisConfig, see chapter 4 "Setting parameters using TrikdisConfig software".

## 2.2 Settings for connection with Central Monitoring Station

In **“System options”** window:

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1. Enter "**Object ID**" (account) number provided by the Central Monitoring Station (4 characters, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).
2. Enter "**SIM card PIN**" code.
3. Change "**APN**" name. "**APN**" can be found on the website of the SIM card operator ("internet" is universal and works in many operator networks).

### In "Reporting to CMS" window settings for "Primary channel":

4. **Communication type** - select the **IP** connection method (We do not recommend SMS as the primary channel).
5. **Domain or IP** - enter the receiver's Domain or IP address.
6. **Port** - enter receiver's network port number.
7. **Protocol** - select the protocol type for event messages: **TRK** (to TRIKDIS receivers), **DC-09\_2007**, **DC-09\_2012** or **DC-09\_IPcom** (to universal receivers).
8. **Encryption key** - enter the encryption key that is set in the receiver.

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1. (Recommended) Configure “**Backup channel**” settings.
2. (Recommended) Enter “**Backup channel 2**” SMS reporting number.

After finishing configuration, click **Write [F5]** and disconnect the USB cable.

#### NOTE

For more information about other CG17 settings in TrikdisConfig, see chapter 4 "Setting parameters using TrikdisConfig software".

## 3. Schematics and installation process

### 3.1 Mounting

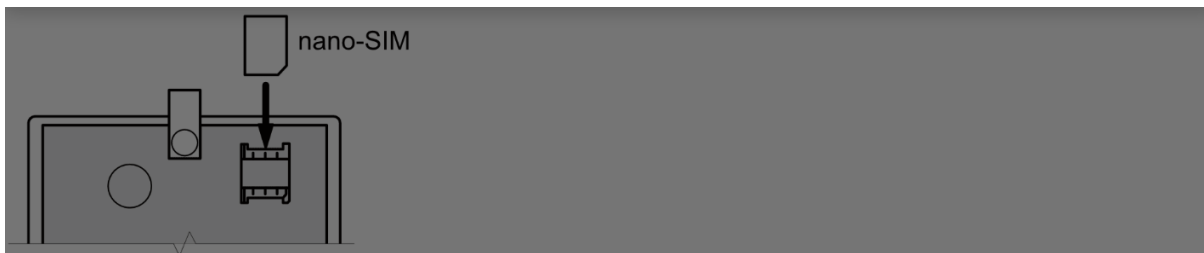
1. Before beginning, make sure that the Cellular signal level is sufficient in the place where the *CG17* will be mounted.
2. Remove the top lid and pull out the contact terminals.
3. Remove the PCB.
4. Fasten the base of the casing in the desired place using screws.
5. Reinsert the PCB and terminal blocks.
6. Screw the Cellular antenna in.
7. Insert a nano-SIM card. The SIM card must already be activated in the Cellular network and all required services must be enabled, i.e., the card must be able to call, send and receive SMS messages, use mobile internet. Ask your SIM card's mobile network operator how to enable the required services.



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**NOTE**

Make sure that the SIM card is activated. / Make sure that the mobile internet service is turned on if connection via the IP channel will be used. / If you do not want to enter the PIN code in TrikdisConfig, insert the SIM card into a mobile phone and disable PIN code requests.

8. If you want to be able configure the CG17 remotely, insert a SIM card with disabled PIN code requests. Send an SMS message: **CONNECT 123456 PROTEGUS=ON,APN=INTERNET**
9. Remote configuration is described in chapter 5.5 "Setting parameters remotely".
10. Close the top lid.

## 3.2 Schematics for connecting inputs

The CG17 has four inputs IN for connecting various alarm system sensors. Possible ways to connect a sensor: NO – normally open contact; NC- normally closed contact; EOL – normally closed circuit with a 10kΩ end of line resistor; EOL\_T – normally closed with End of line resistor (10kΩ), with tamper and wire fault recognition.

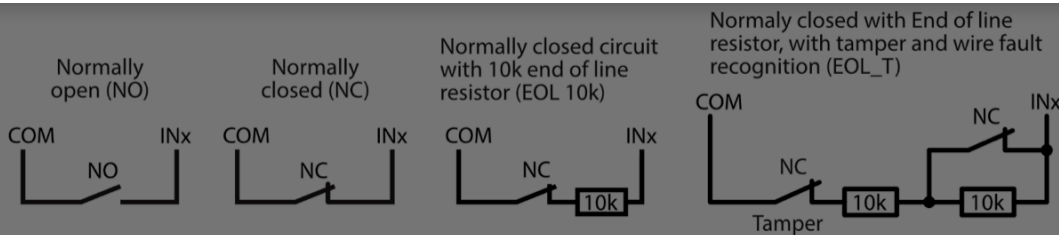
### Factory settings of zones (inputs)

Zone	Description
1 IN	Default setting "Delay", zone type EOL, partition 1
2 I/O	Default setting "Interior", zone type EOL, partition 1

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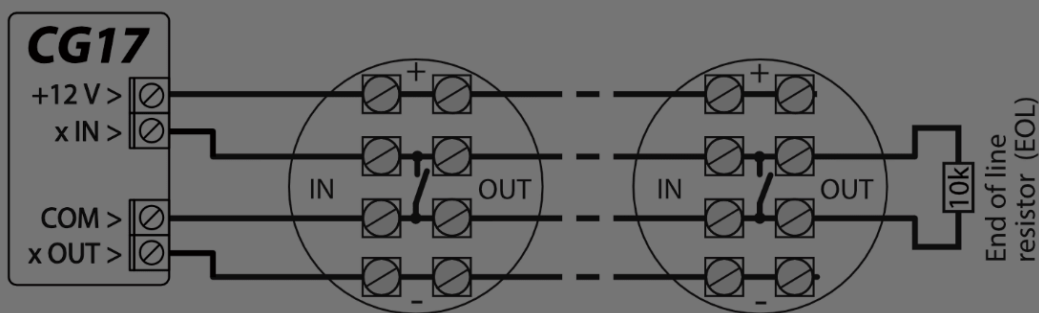
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### 3.3 Schematics for connecting a smoke detector

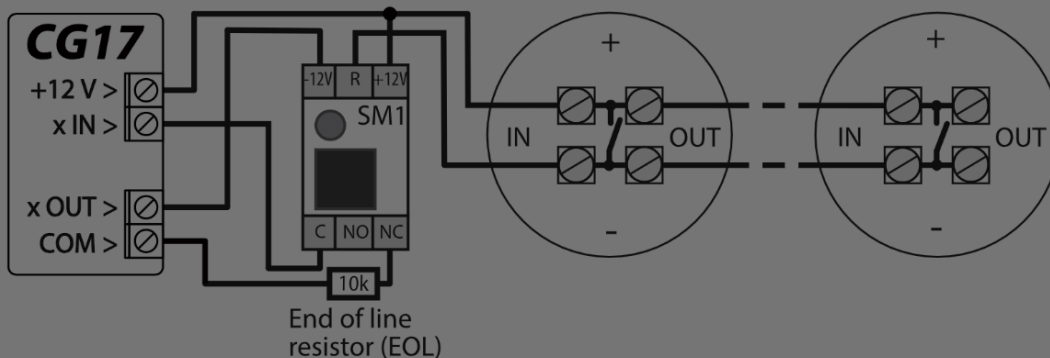
Assign a PGM output the function **"Fire sensor reset"** (see TrikdisConfig window "PGM" -> "Outputs" tab) so that the smoke detector can be restarted after an alarm.

- **Connecting a four-wire smoke detector**



- **Connecting a two-wire smoke detector**

1) using an EOL zone (or NC, no resistor).



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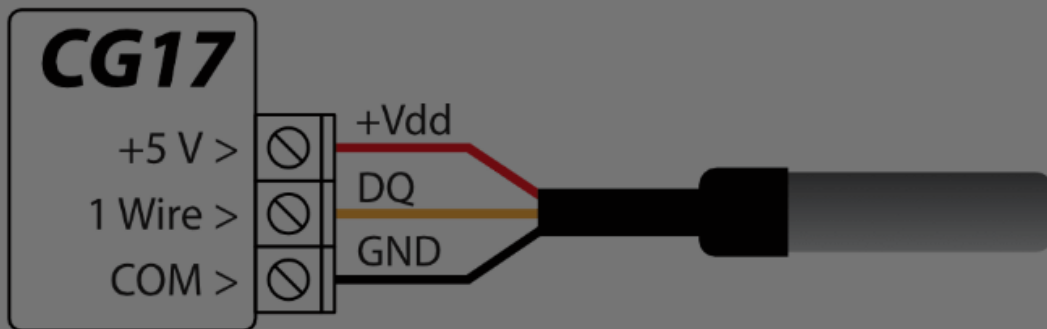
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\*SM1 – a compatibility module made by Trikdis that allows to remotely restart a two-wire smoke detector after a triggered alarm.

### 3.4 Schematics for connecting a temperature sensor

- Temperature sensors should be connected according to the given schematic. Maxim®/Dallas® DS18S20, DS18B20 temperature sensors (up to 8 units) can be connected to the *CG17*.
- If the wire connecting the temperature sensor is longer than 0,5 m, we recommend using a twisted pair cable (UTP4x2x0,5 or STP4x2x0,5).



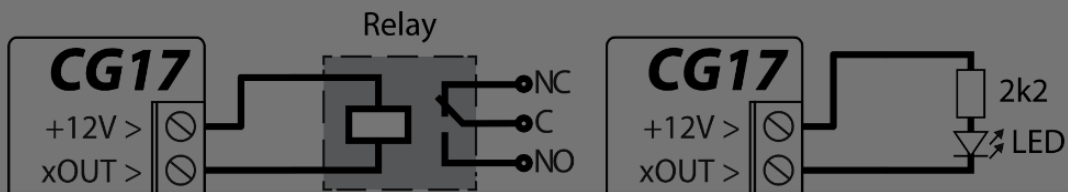
Wire colors:

**Vdd** - red wire, connect it to the “+5 V” terminal;

**DQ** - yellow wire, connect it to the “1-Wire” terminal;

**GND** - black wire, connect it to the “COM” terminal.

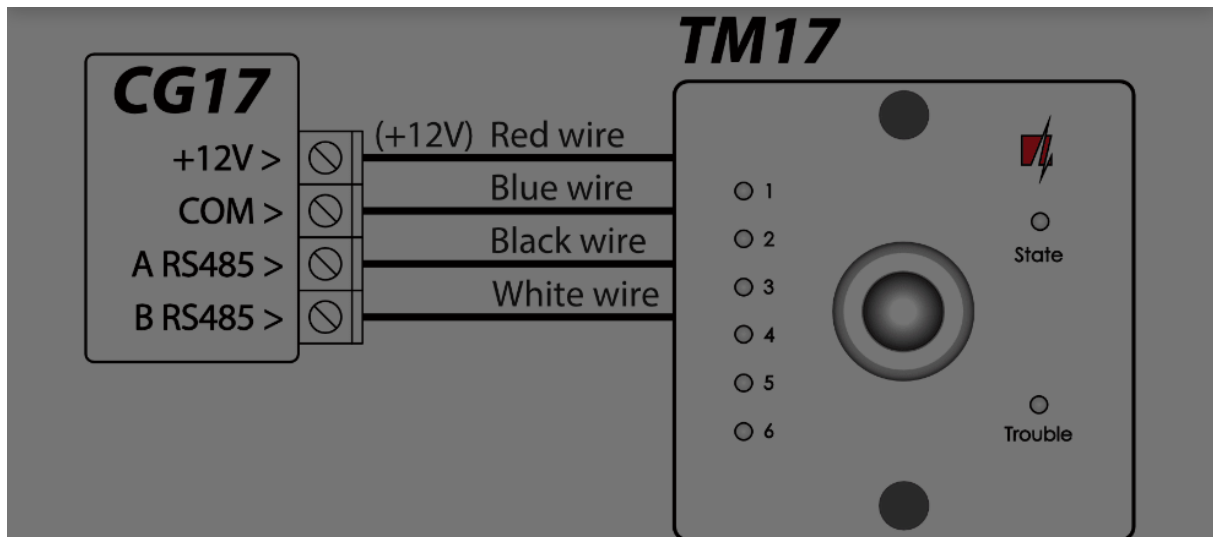
### 3.5 Schematics for connecting a relay and a LED



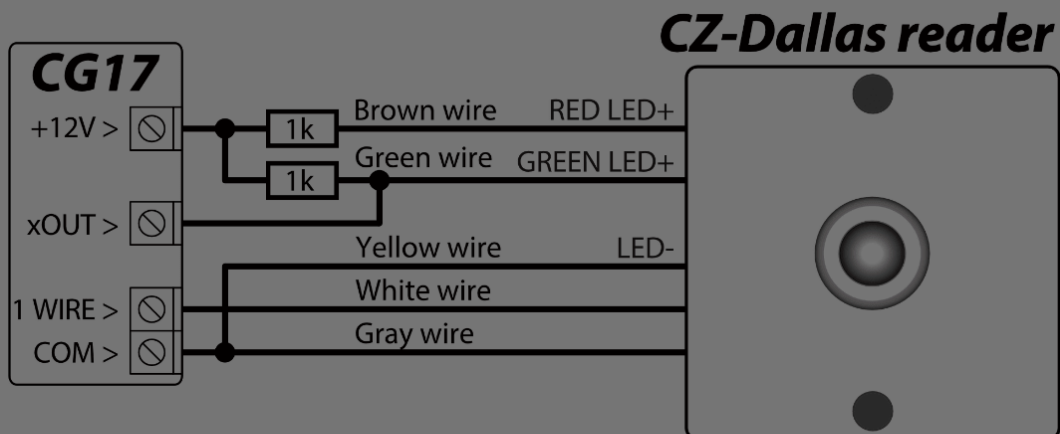
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The iButton key reader should be connected to the CG17 using the "1 Wire" port. The wire length can be up to 30 m:



The output xOUT must be set to the "System State" type.  
Security alarm is on - the iButton reader light is red.  
The security alarm is off - the iButton reader light is yellow.

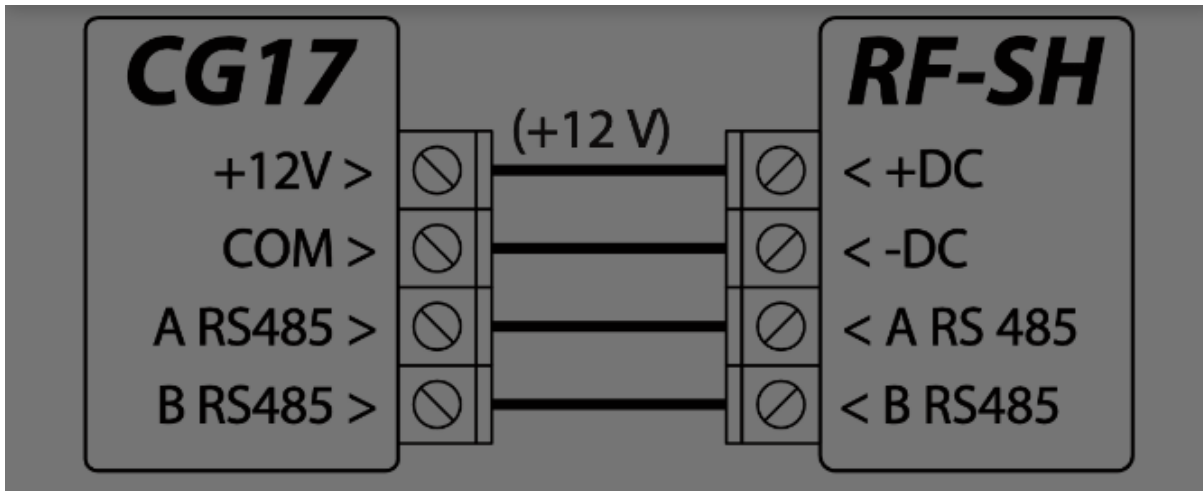
#### NOTE

Linking keys to the CG17 is described in chapter 4.4.1 „Registration of contact (iButton) keys“.

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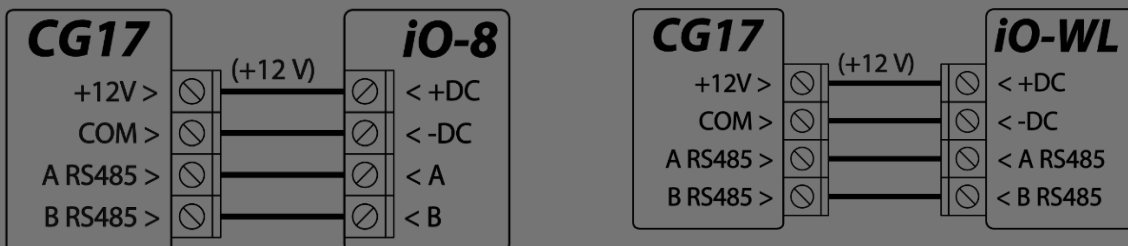
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### 3.8 Schematics for connecting iO series expander modules

If the security control panel CG17 needs to have more inputs IN or outputs OUT, connect a wired or wireless TRIKDIS iO series input and output expander. The CG17 configuration for expander modules is described in chapter 4.5 "Modules" window". Up to eight iO-8 expansion modules can be connected to the CG17. The iO-8 module can use all or only a few zones. The total number of CG17 zones is 12 units.



### 3.9 Schematics for connecting keypad Crow CR-16

Up to 8 keypads (Crow CR-16 Runner, Crow LCD Runner, Crow Touch Runner or Crow CR-16 PowerWave) can be connected to the CG17. In *TrikdísConfig*, it should be noted that the Crow keypad will be used (see chapter 4.2 "System Options" window").

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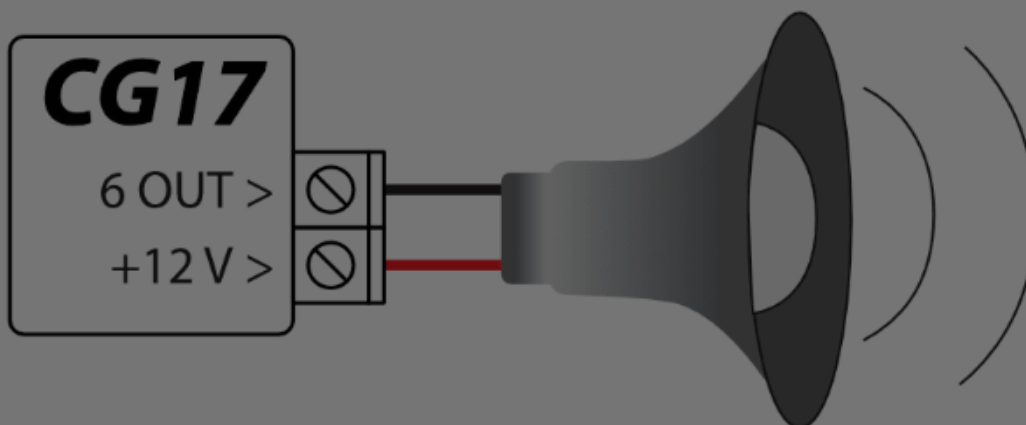
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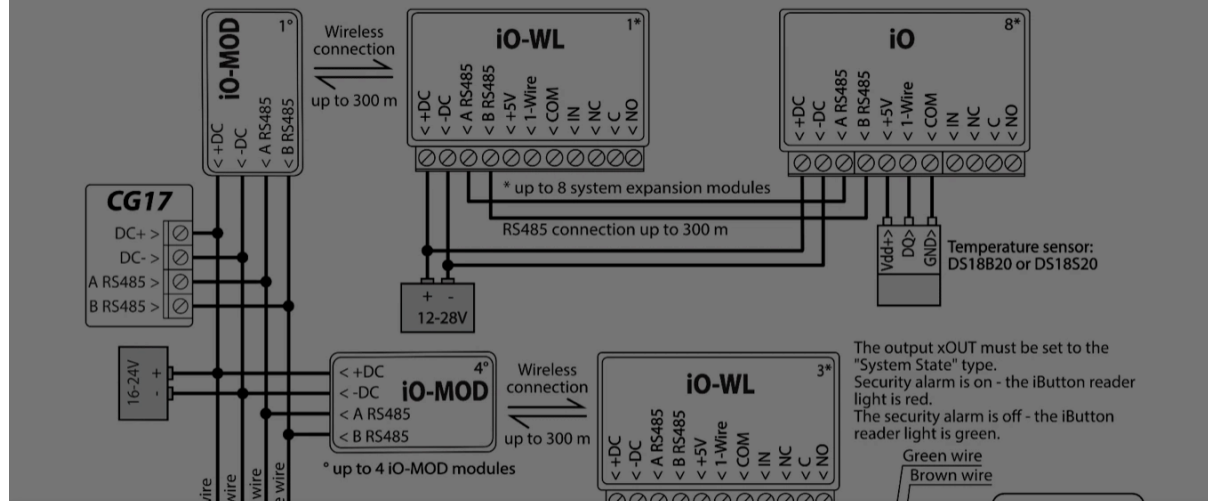


### 3.10 Schematics for connecting a siren

- A siren that draws up to 1 A of current can be connected to the output 5 OUT or output 6 OUT.
- A siren that draws up to 100 mA of current can be connected to any output OUT.
- The output OUT must be assigned the function "Siren" and must have a security system area set.



### 3.11 Schematics for connecting iO series extension modules



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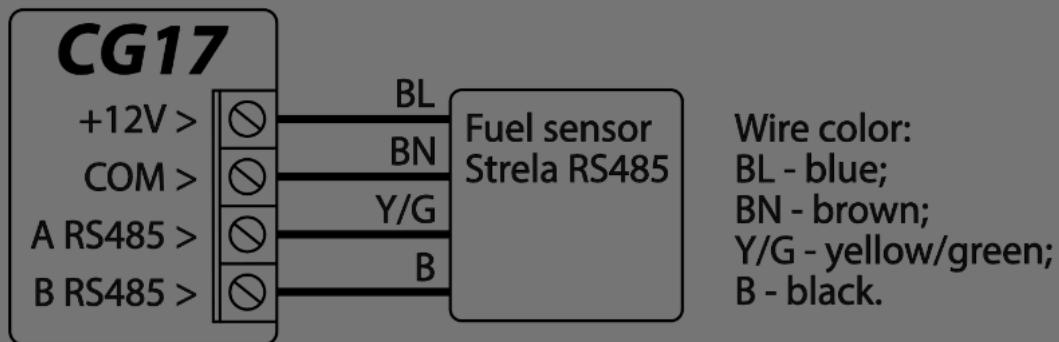
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- Up to four iO-MOD modules.
- Up to eight iO or / and iO-WL modules.
- iButton key readers and temperature sensors should be connected to the „1-Wire“ terminal.

### 3.12 Schematics for connecting of the fuel level sensor Strela RS485



One „Strela RS485“ fuel level sensor can be connected to the CG17. When the fuel sensor is connected, no other modules (iO-8, iO, iO-WL, RF-SH, TM17, E485, W485, iO-LORA, iO8-LORA, PB-LORA, REL-LORA) are connected to the CG17.

#### Configuring and preparing the fuel level sensor to work with the CG17

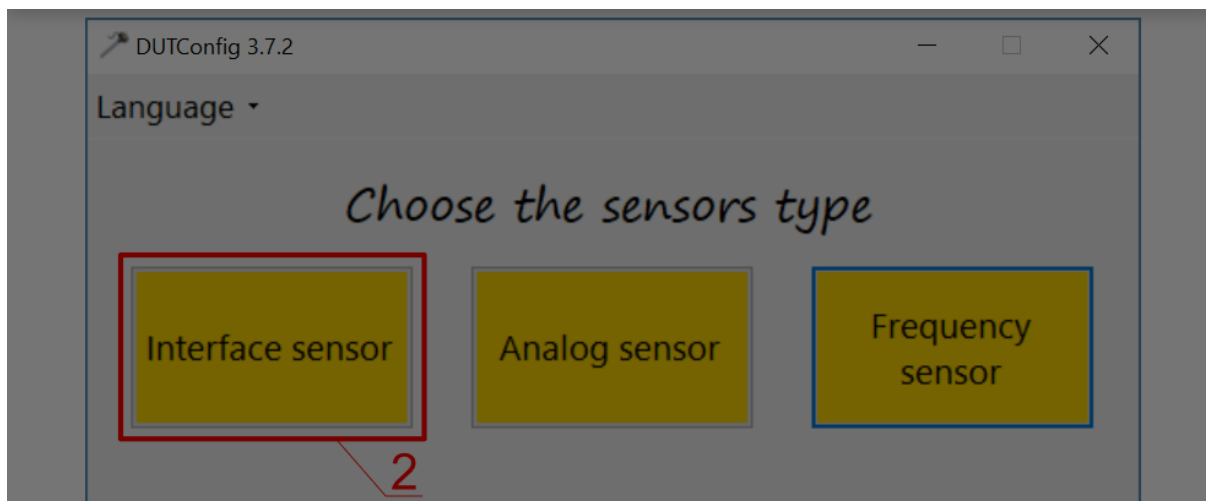
It is mandatory to calibrate the fuel level sensor “**STRELA S485**” ([http://strela-fls.com/products/fuel\\_level\\_sensors\\_strela.html](http://strela-fls.com/products/fuel_level_sensors_strela.html)) using the manufacturer’s calibration software “DUTConfig” (<http://strela-fls.com/programs.html>) and specify the fuel tank’s capacity – otherwise the sensor’s measurements can be imprecise.

1. Connect the fuel level sensor to a computer using a programming adapter. Press the „brown“ button on the adapter to make the green indicator in the RS-485 UART section light up.
2. Launch the “DUTConfig” program. Choose “**Interface sensor**”.

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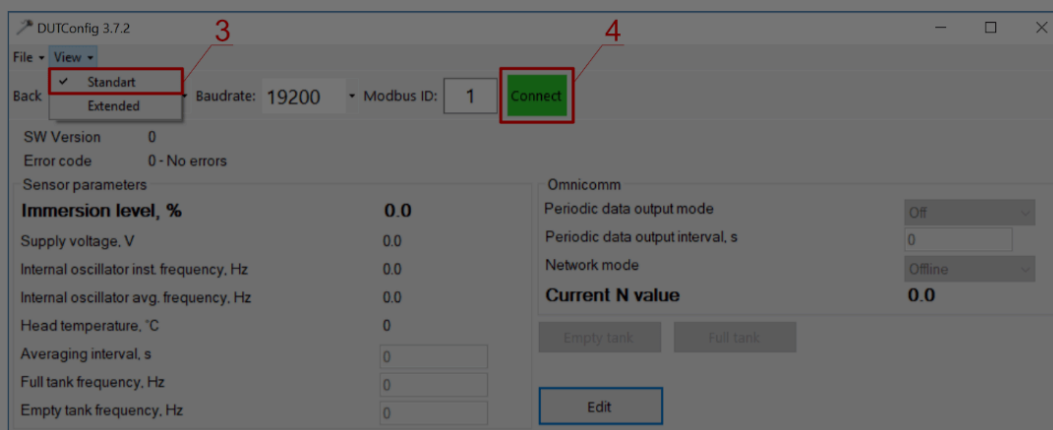
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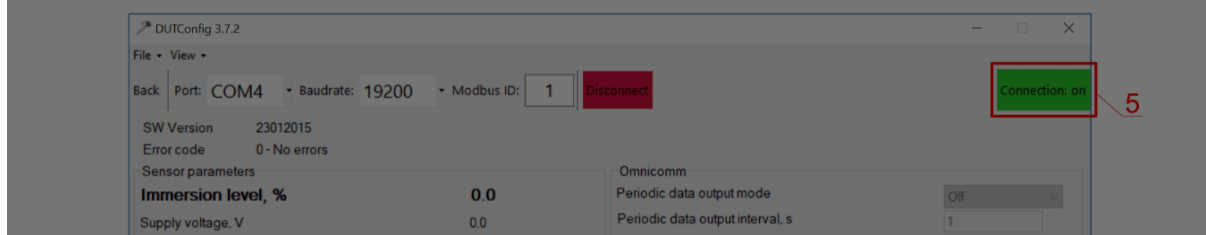


3. Set **"View"** mode **"Standart"**.

4. Click **"Connect"** and wait.



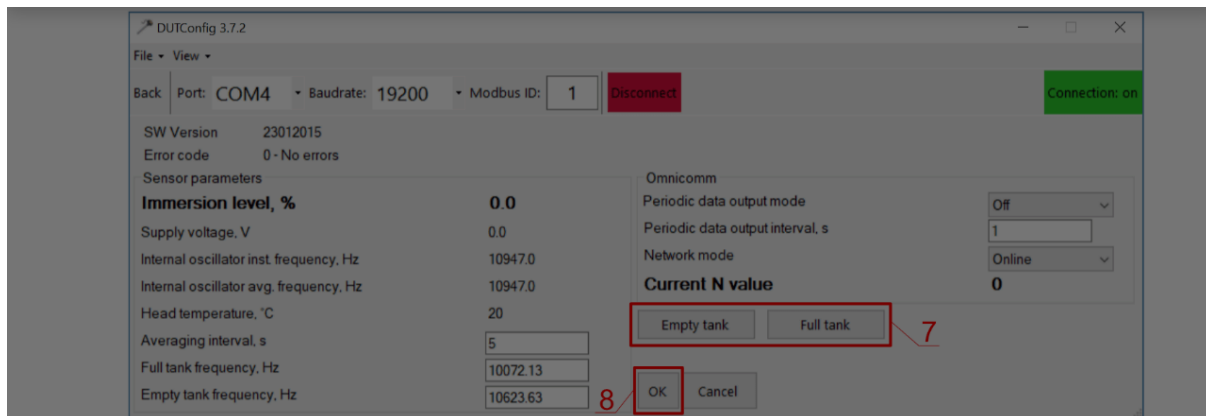
3. When the sensor is connected to "DUTConfig", a box **"Connection: on"** appears.



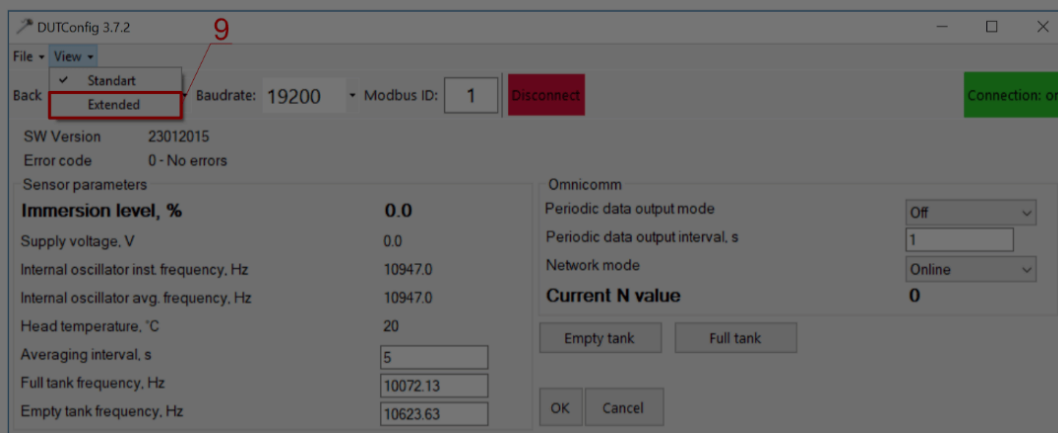
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7. Change the “View” mode to “Extended”.



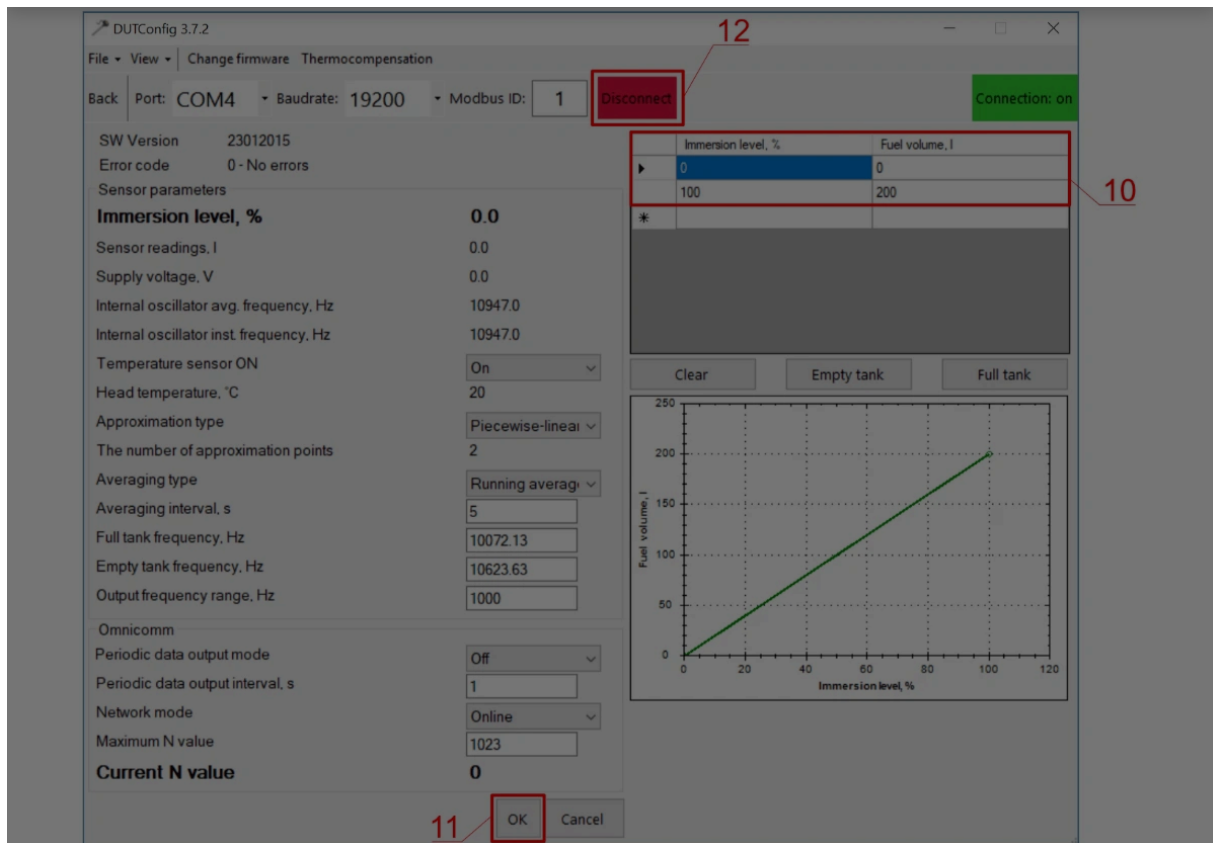
10. Fill in the table according to the shape of the fuel tank. Simple method: just set 0% immersion as 0 litres and 100% immersion as the capacity of your fuel tank (the fuel tank in the example has a capacity of 200 l).

11. After you are done filling in the table, click “OK”.

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12. Click the **“Disconnect”** button.

13. Disconnect the fuel level sensor and connect it to the CG17.

### 3.13 Schematics for connecting a battery

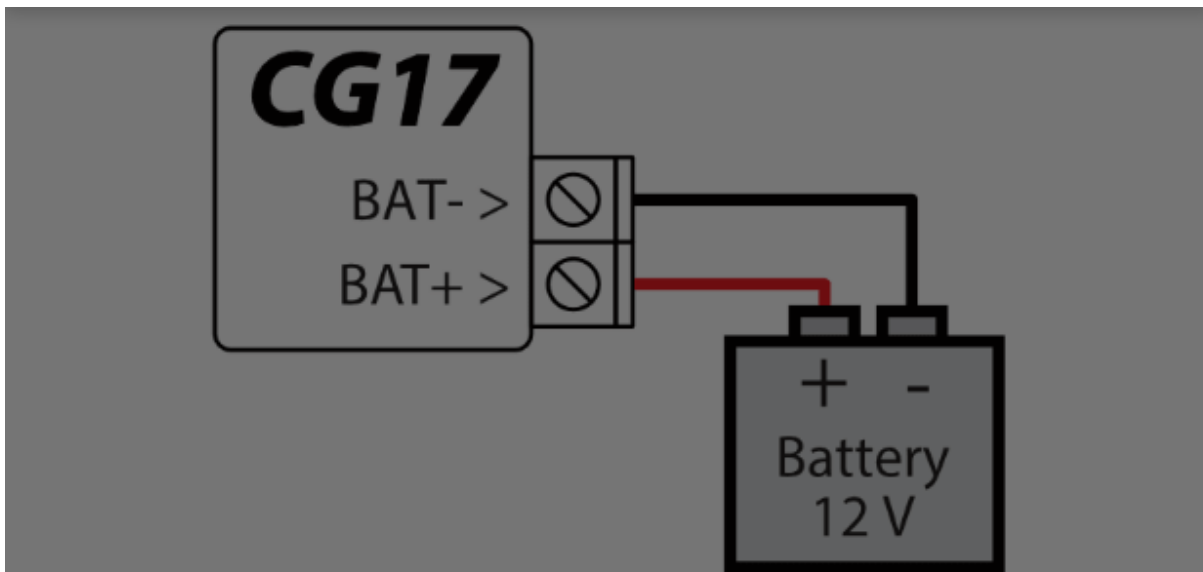
A 12 V battery can be connected to the CG17. If AC power is lost, an event message *“AC fault”* will be sent and the CG17 will automatically switch to the 12 V battery.

- When the battery's voltage drops to 11,5 V, an event message *“Battery low”* will be sent.
- When the battery's voltage drops below 9,5 V, if there is no AC power, the CG17 will turn off.
- When AC power is restored an event message **“AC restore”** will be sent and the battery

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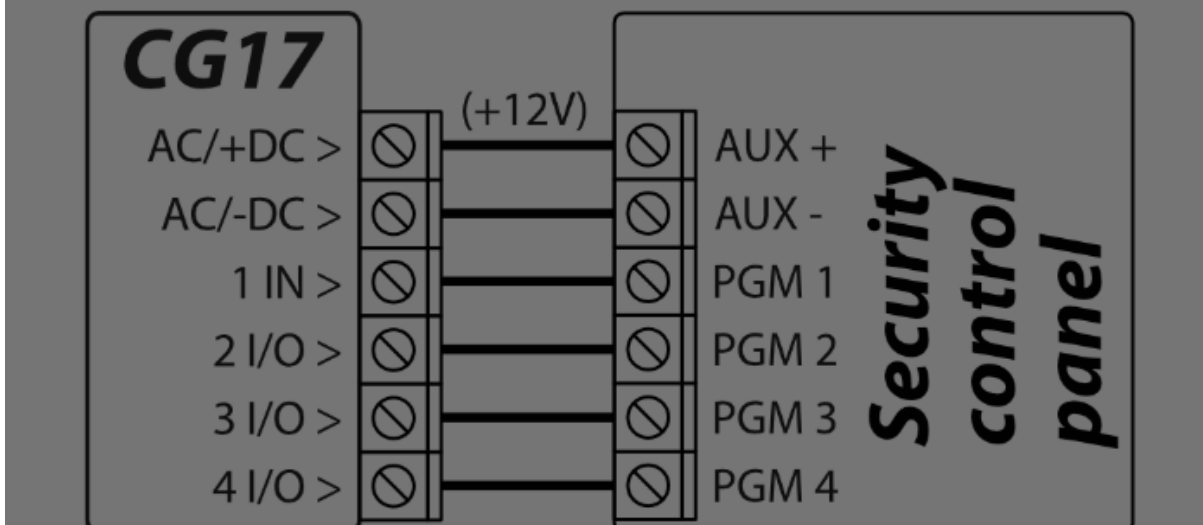
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### 3.14 Schematics for wiring the CG17 to a security control panel

CG17 works in communicator mode. Inputs type of CG17 must be set to NO or NC and definition "24\_hours". / The CG17 inputs could be described with SMS text messages that the user will receive when the inputs are event/restore. / PGM outputs of security control panel must be assigned to specific events.

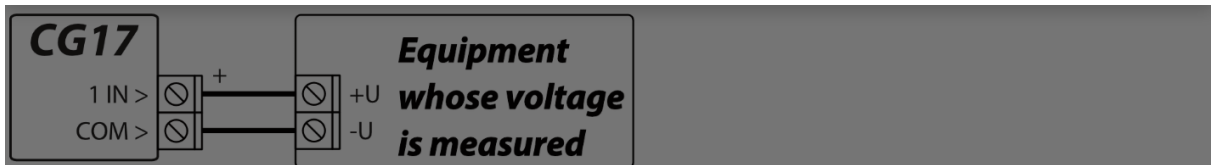


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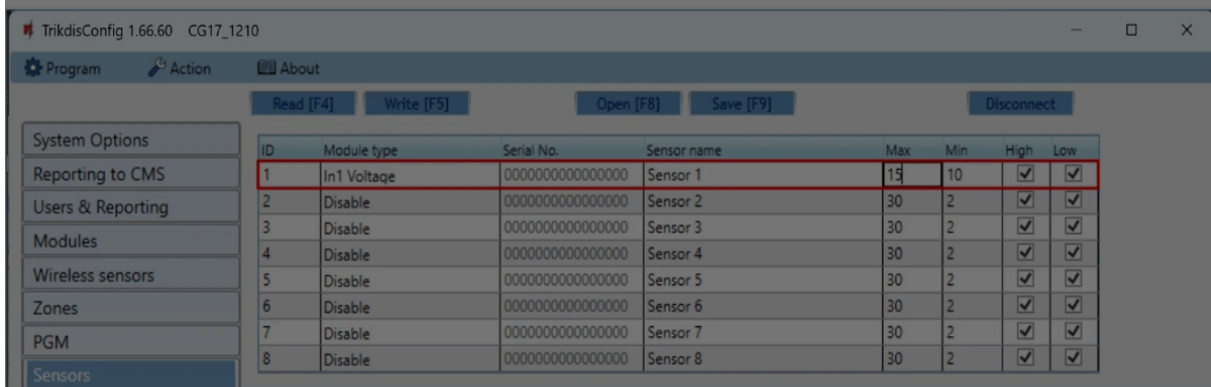
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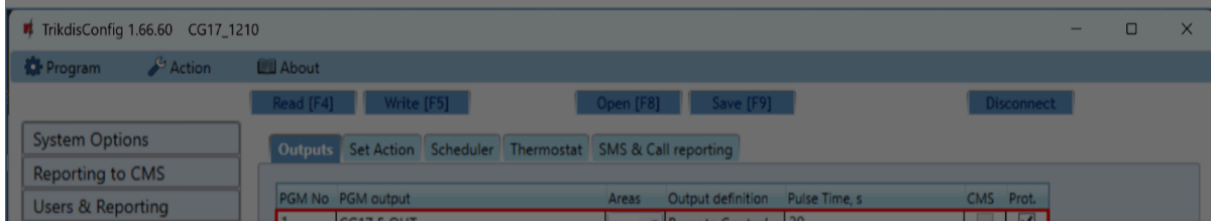


Connect the CG17 to a computer with a USB Mini-B cable. Run TrikidisConfig. The software will automatically recognize the connected CG17 and will open a window for configuration. In the “**Sensor**” window, specify the “**In1 Voltage**” and also specify the amount of voltage above which a message will be generated.

- **Max** – when the voltage is higher than this setting, an event message will be generated. For an event message to be generated, the “**High**” box must be ticked.
- **Min** – when the voltage is lower than this setting, an event message will be generated. For an event message to be generated, the “**Low**” box must be ticked.



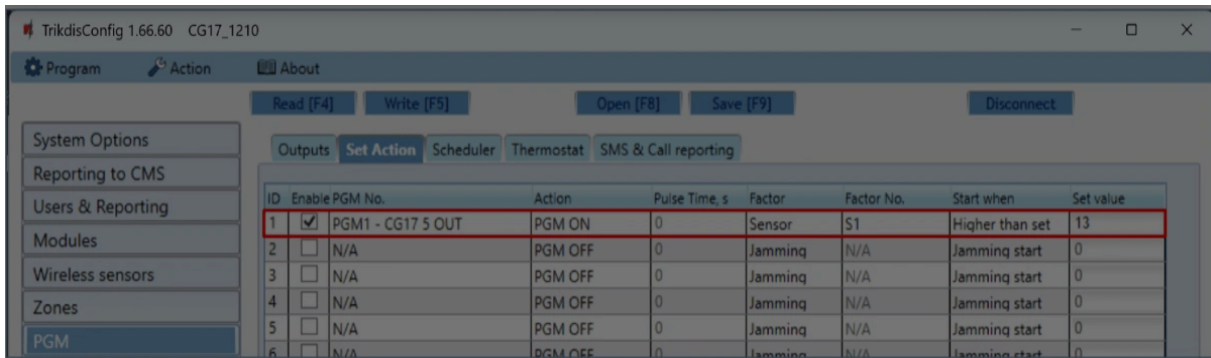
The PGM output can be controlled when measuring a voltage above a set value or below a set value. In TrikidisConfig you need to select the PGM output and set it to “**Remote Control**” operation mode.



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- **Enable** – enables the PGM.
- **PGM No.** – specify the PGM output that the “1IN” input will control.
- **Action** - set the operating mode of the PGM output:
- **PGM OFF** – turn off PGM output.
- **PGM ON** – enable PGM output.
- **Pulse OFF** - turning off the PGM output for the duration of the pulse (after receiving the command, the output turns off for the duration of the pulse and then turns on).
- **Pulse ON** – turn on the PGM output for the duration of the pulse (after receiving the command, the output turns on for the duration of the pulse and then turns off).
- **Pulse time, s** – set the pulse time anywhere from 0 to 9999 seconds.
- **Factor** – set sensor.
- **Factor No.** – assign a voltage measuring input “1IN”.
- **Start when** – set an additional condition for activating the PGM output.
- **Set value** – specify the voltage (V) that the controller will monitor and control the PGM output.

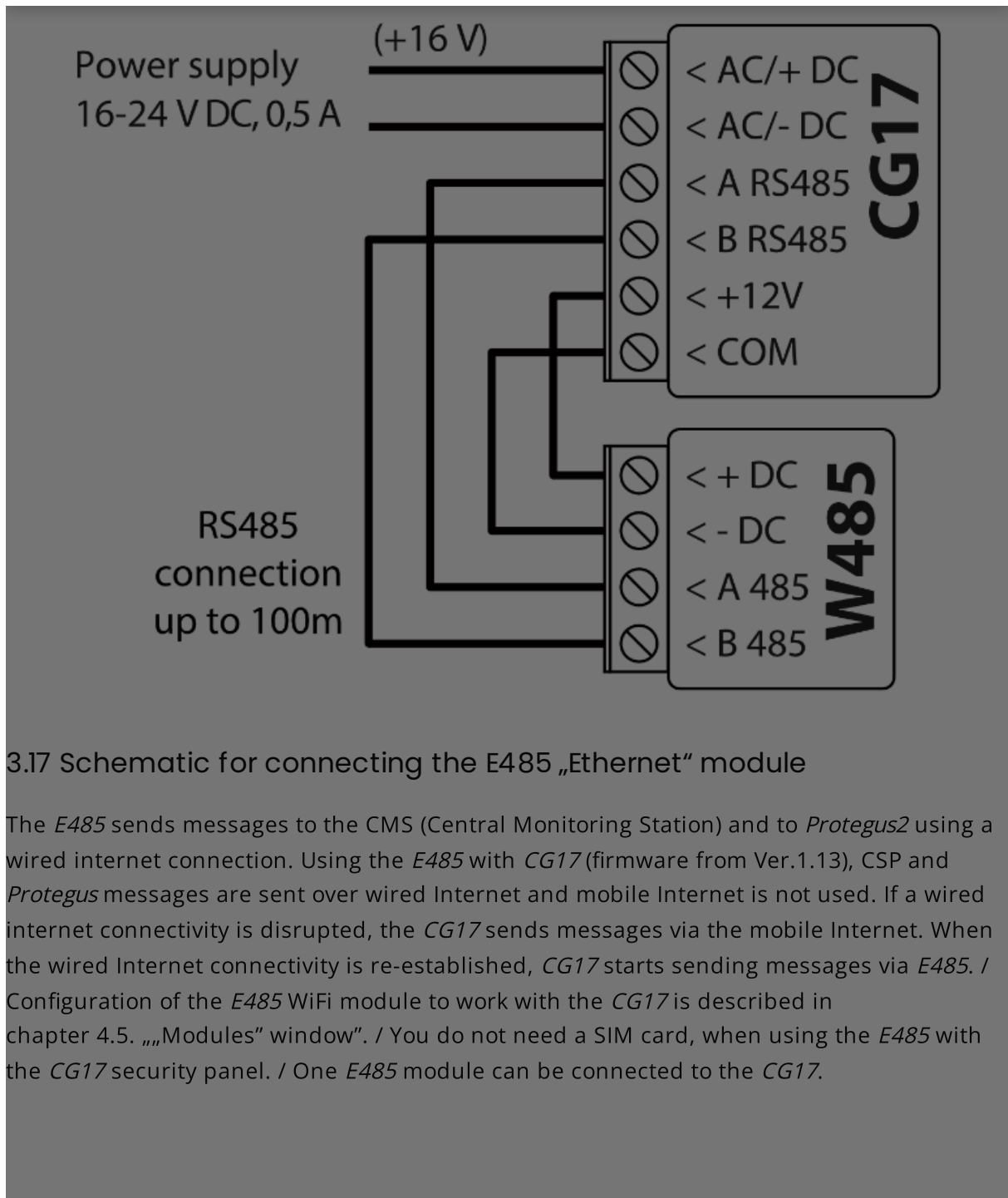
### 3.16 Schematic for connecting the W485 WiFi module

The W485 module sends messages to the CMS (Central Monitoring Station) and to *Proteagus2* using a WiFi internet router. When WiFi connectivity is available, the CG17 (firmware from Ver.1.13) sends event messages via the W485 module. When WiFi connectivity is disrupted,

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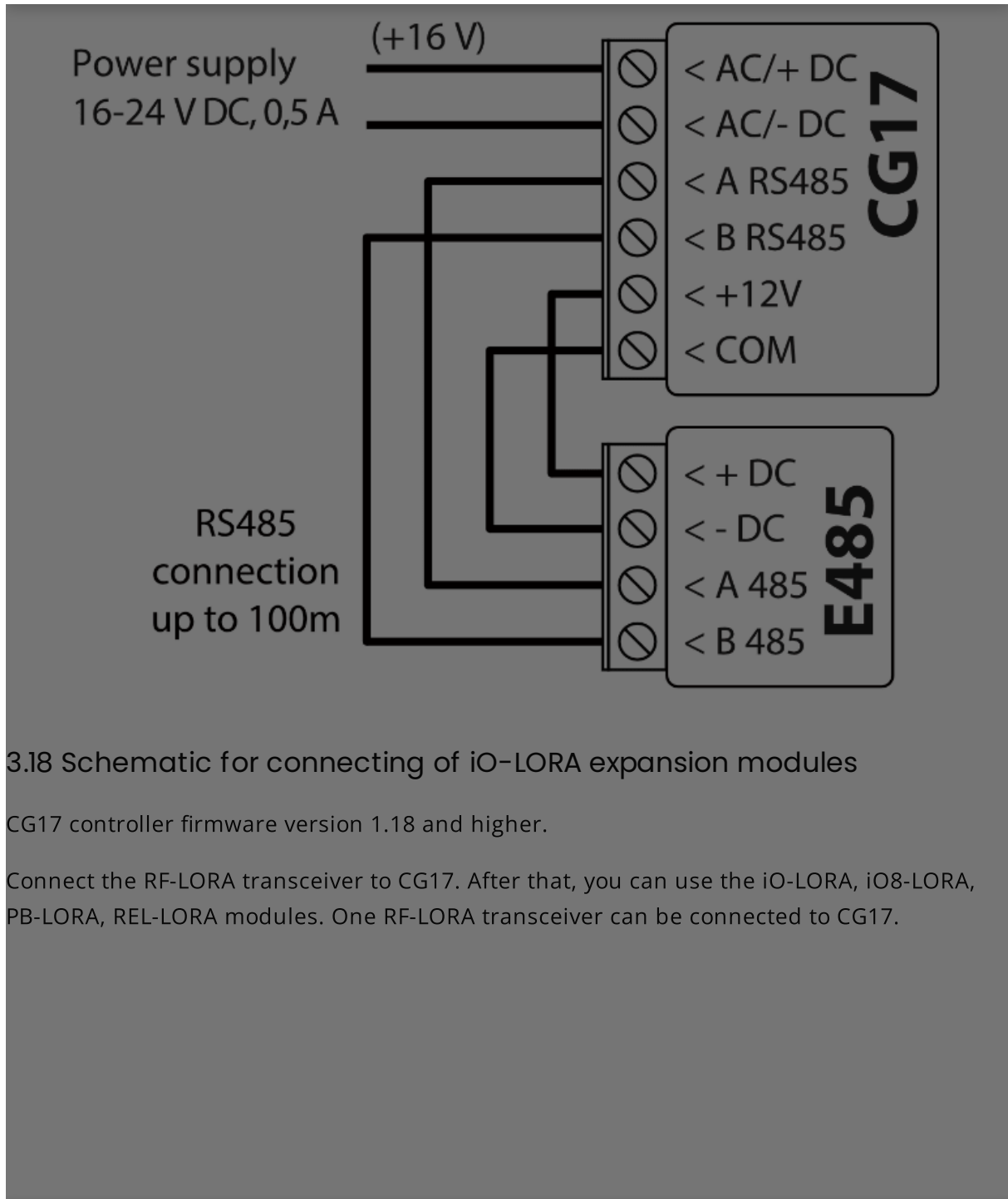
### 3.17 Schematic for connecting the E485 „Ethernet“ module

The *E485* sends messages to the CMS (Central Monitoring Station) and to *Protegeus2* using a wired internet connection. Using the *E485* with *CG17* (firmware from Ver.1.13), CSP and *Protegeus* messages are sent over wired Internet and mobile Internet is not used. If a wired internet connectivity is disrupted, the *CG17* sends messages via the mobile Internet. When the wired Internet connectivity is re-established, *CG17* starts sending messages via *E485*. / Configuration of the *E485* WiFi module to work with the *CG17* is described in chapter 4.5. „„Modules“ window“. / You do not need a SIM card, when using the *E485* with the *CG17* security panel. / One *E485* module can be connected to the *CG17*.

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### 3.18 Schematic for connecting of iO-LORA expansion modules

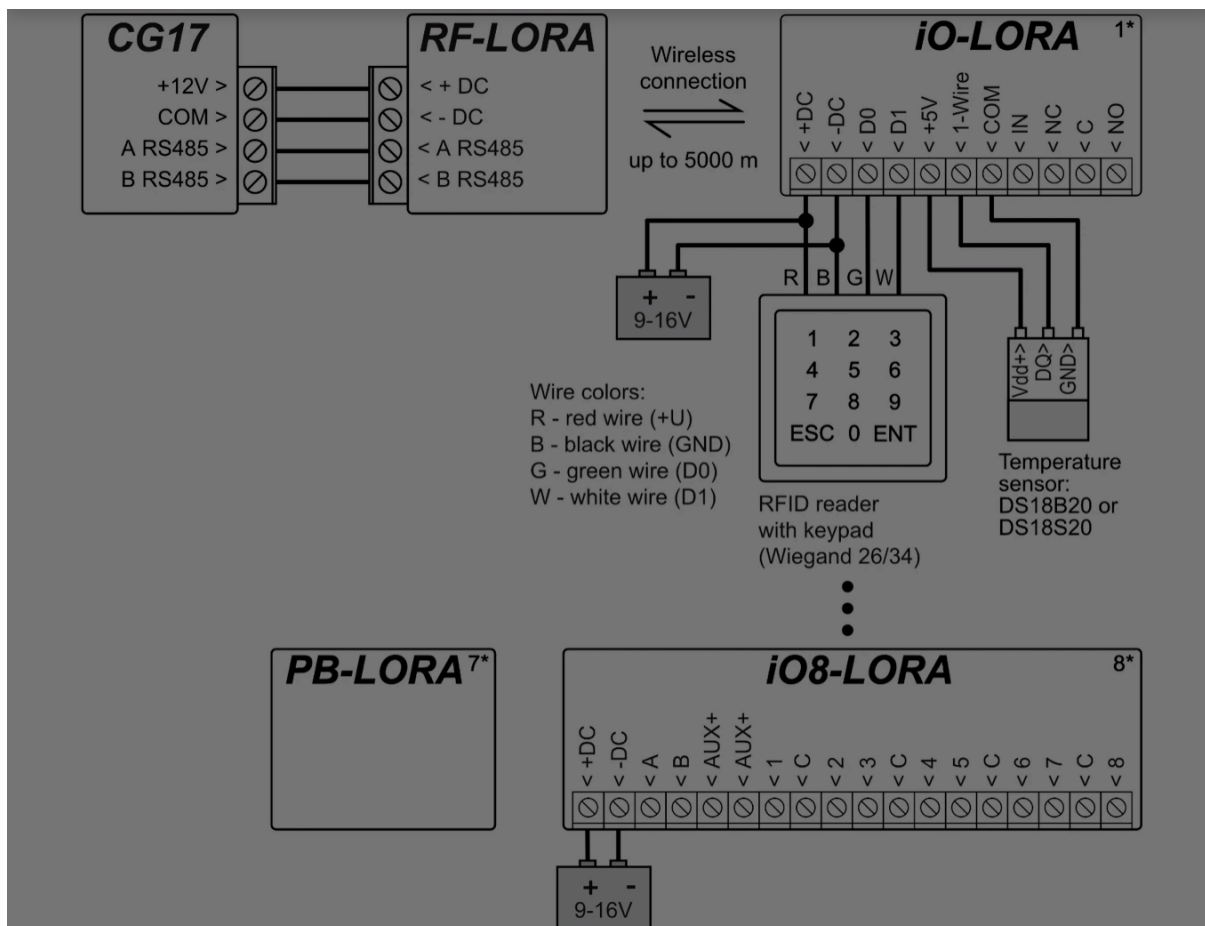
CG17 controller firmware version 1.18 and higher.

Connect the RF-LORA transceiver to CG17. After that, you can use the iO-LORA, iO8-LORA, PB-LORA, REL-LORA modules. One RF-LORA transceiver can be connected to CG17.

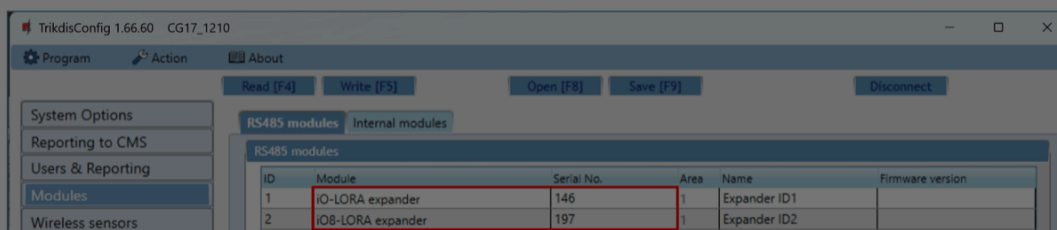
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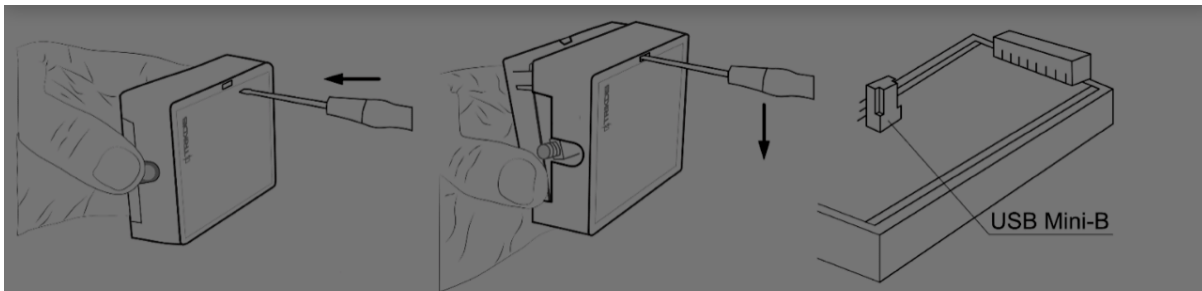
Launch TrikdisConfig. Connect the CG17 via USB Mini-B cable to the computer or remotely. Click the **Read [F4]** button in the TrikdisConfig program to display the current values of the controller's operating parameters. When prompted, enter the administrator or installer code in the pop-up window. In the **"Modules"** list, select the LORA module you are using. In the **"Serial No."** field, enter the serial number of the module.



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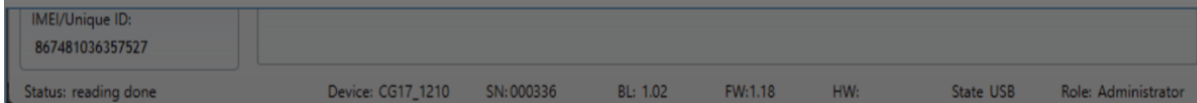
- Google Analytics



1. Connect the CG17 to a computer using a USB Mini-B cable.
2. Launch the configuration program TrikdisConfig. The program will automatically recognize the connected device and will automatically open the CG17 configuration window.
3. Click the **Read [F4]** button to see the current parameters of the CG17. If prompted, enter the *administrator* or *installer* code in the pop-up window.

#### 4.1 Description of TrikdisConfig status bar

Once the CG17 is connected to the TrikdisConfig software, the program will display information about the connected device in the status bar:



##### 4.1.1 Status bar

Name	Description
IMEI/Unique ID	The device's IMEI number
Status	Operational state
Device	Device type (must show CG17)
SN	Device's serial number
BL	Bootloader version
FW	Device's firmware version
HW	Device's hardware version

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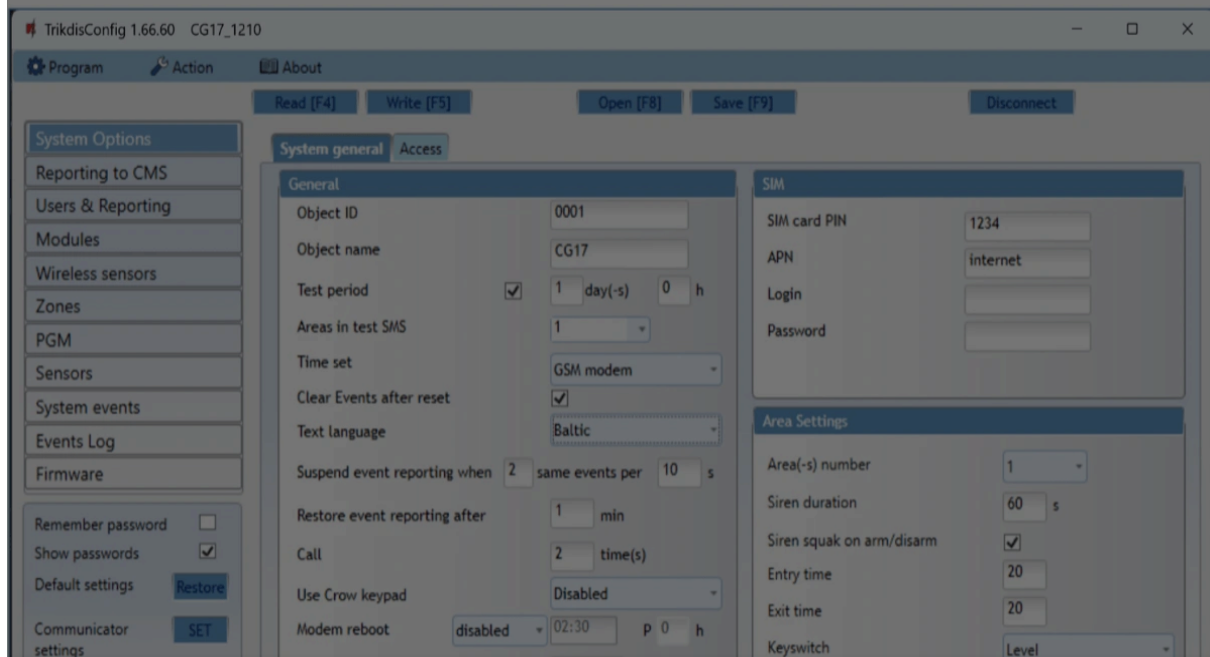
**NOTE**

Click **Read [F4]** to make the program read and display the settings that are currently saved on the device. / Click **Write [F5]** to save the settings displayed on the screen to the device. / Click **Save [F9]** to save the settings to a configuration file. You can upload the saved settings to other devices later. This allows to quickly configure multiple devices with the same settings. / Click **Open [F8]** and choose a configuration file to view previously saved settings. / If you want to revert to the default settings, click the "**Restore**" button at the lower left of the screen.

When the **Read [F4]** button is clicked, the program will read and show settings currently saved on the CG17. With TrikidisConfig, set the required parameters using the following program window descriptions.

## 4.2 "System Options" window

### "System general" tab



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- **Test period** – when the box is ticked, periodic “**Test**” messages will be sent every set period.
- **Areas in test SMS** – the states of chosen areas will be sent in the test message.
- **Time set** – choose a server to synchronize time with. If you choose “**IP server**”, time will be synchronized with the IP receiver’s time, if you choose “**Cellular modem**”, time will be synchronized with the GSM service provider’s server time.
- **Clear Events after reset** – all unsent event messages will be deleted after reset.
- **Text language** – set the preferred language and the specific symbols of that language will be used in SMS messages.
- You can **Suspend event reporting when ...** a number of **same events per ... s** happen.
- **Restore event reporting after** – set the time after which suspending of event reporting will be cancelled. The time can be anywhere from 0 to 999 minutes.
- **Call** – after an event, the CG17 will call user(s) as many times as is specified. If the call is declined or answered, the CG17 will stop calling. Call time is 20 seconds.
- **Use CROW keypad** – specify the keypad type (**Crow CR-16, Crow LCD, Crow Touch**) connected to the control panel.
- **Modem reboot** - you can set the modem to restart at a specified time.
- **AC failure delay** - in the event of a power failure in the main power supply, a power failure notification will be sent after the specified time delay. When the supply voltage is restored, a notification of the supply voltage recovery will be sent after the specified time delay.

### Settings group “SIM”

- Enter “**SIM card PIN**” code.
- **APN** – service provider’s mobile internet access point name. You must enter the APN if event messages will have to be sent to Protegus cloud service or to the CMS via GPRS.
- If the SIM card’s GPRS service provider requires, enter the “**APN**” user name and password in the fields “**Login**” and “**Password**”.

### Settings group “Area Settings”

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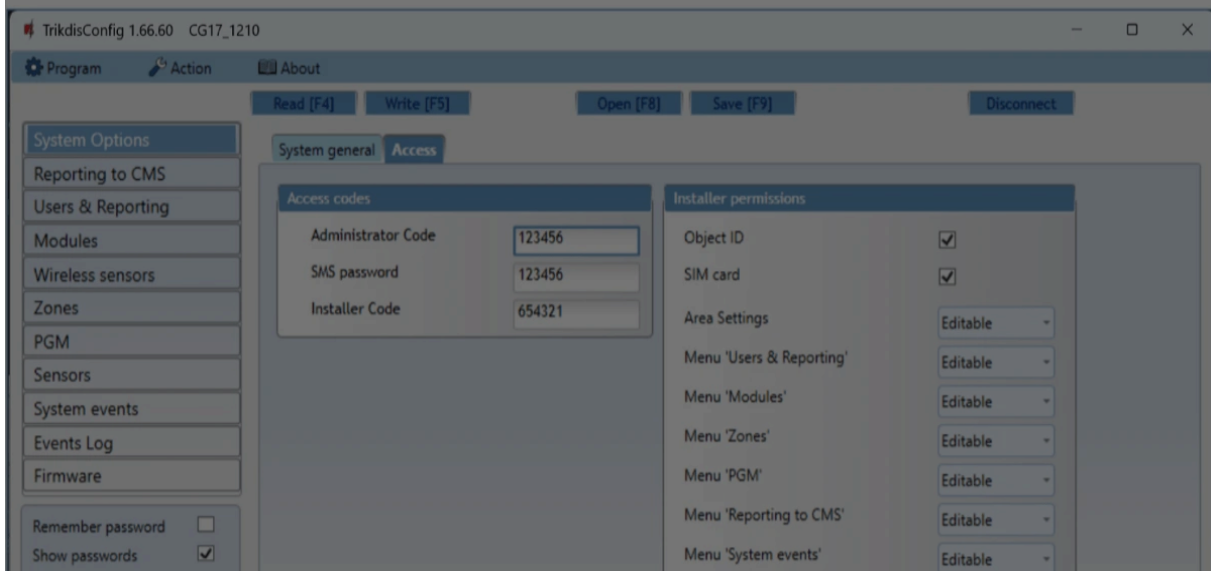
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- **Entry time** – time for entering through the “Delay” zone. Time is anywhere from 0 to 999 seconds.
- **Exit time** –time for exiting through the “Delay” zone. Time is anywhere from 0 to 999 seconds. When the alarm is armed using the Protegus2 app or phone call, the system will not count the “Exit time”.
- **Keyswitch** sets the alarm’s arm/disarm mode using the “Keyswitch” zone. You can choose control using “Pulse” or “Level”.
- **Tamper mode** – choose the reaction type (“Silent”, “Audible when armed”, “Always Audible”) when the system detects a sensor tamper event. “Silent” – recipients will receive event reports, but the siren will not switch on; „Audible when armed” - recipients will receive event reports, but the siren will switch on only if the tamper event happens when the system is armed; „Always audible” - recipients will receive event reports and the siren will will switch on even when the alarm system is disarmed.

## “Access” tab



## Settings group “Access codes”

- **Administrator Code** – (default code - 123456) gives full access to configuration (the code

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**NOTE**

If the default *administrator code* is set (123456), the software will not require it to be entered and clicking **Read [F4]** will immediately show the parameters currently saved on the device.

**Settings group “Installer permissions”**

- For setting installer’s rights.

**4.3 “Reporting to CMS” window**

The control panel can send messages to the security company's CMS receiver.

**Settings groups “Primary channel” and “Backup channel”**

- **Communication type** – choose a protocol for communication with the receiver (TCP/IP,

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### Settings group "Settings"

- **Return to primary after** – time period after which the CG17 will attempt to regain connection with the "**Primary channel**", in minutes.
- **IP Ping period** – period for sending PING signals for checking connectivity on the GPRS channel, in seconds. To enable these signals, tick the box.
- **SMS PING period** – period for sending PING signals for checking connectivity on the SMS channel, in minutes. To enable these signals, tick the box.
- **Backup reporting after** – enter how many failed attempts to send messages using the "**Primary channel**" should happen before switching to the "**Backup channel**".
- **DNS1 – DNS2** – DNS server addresses.
- **Object ID in SIA DC-09** – specify object number.
- **SIA DC-09 receiver No.** – specify receiver number.
- **SIA DC-09 line No.** – specify line number.

### Settings group "Backup channel 2"

- **Phone number** – phone number of an SMS receiver capable of receiving SMS messages (e.g.: 370xxxxxxx). The "**Backup SMS**" channel is used when messages fail to send using the "**Primary**" and "**Backup**" channels. This function is extremely useful because it works even when IP connectivity is disrupted in the mobile operator's network. This channel only works when GPRS mode is set both for the "**Primary**" and "**Backup**" channels. SMS messages will be sent to the receiving center: 1) as soon as the CG17 is turned on for the first time; and 2) after loss of TCP/IP or UDP/IP connectivity on the "**Primary**" and "**Backup**" channels.

## 4.4 "Users & Reporting" window

### "Users" tab

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ID	Name	Tel number	Code	Areas	A	D	PGM	ACK	REC	FWC
1				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		+		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ID	User	iButton code	Control
1	ID 9	000000000000	Arm & Disarm
2	ID 9	000000000000	Arm & Disarm
3	ID 9	000000000000	Arm & Disarm
4	ID 9	000000000000	Arm & Disarm
5	ID 9	000000000000	Arm & Disarm
6	ID 9	000000000000	Arm & Disarm
7	ID 9	000000000000	Arm & Disarm
8	ID 9	000000000000	Arm & Disarm
9	ID 9	000000000000	Arm & Disarm
10	ID 9	000000000000	Arm & Disarm
11	ID 9	000000000000	Arm & Disarm
12	ID 9	000000000000	Arm & Disarm

Cloud application

Enable cloud service  [Back to V1](#)

Parallel reporting

Cloud Access Code

User ID9 permissions (for iButton)

Arm

Disarm

## Settings group “Users & Reporting to User”

- **ID** – user’s number on the list.
- **Name** – user’s name or e-mail. These names will be used in SMS messages about events. An administrator can specify a user's email. This will allow the user to log in to Protegus2.
- **Tel number** – user’s phone number. This number can control the alarm remotely and will receive SMS messages. The numbers must be entered with the international code.
- **Code** – the code for arming and disarming the alarm given for each user.
- **Areas** – areas the user can control. “User ID9” can control only area 1, parameter is uneditable.
- **A** – tick the box if you want to allow the user to ARM the alarm.
- **D** – tick the box if you want to allow the user to DISARM the alarm.
- If **PGM** and **REC** boxes are not ticked, but both **A** and **D** are selected, when the user calls the CG17, their call will be declined, and the alarm will change its operational status to

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### Settings group "Cloud application"

- **Enable cloud service** – enables "**Protegeus service**", so that the CG17 can exchange data with the Protegeus2 app. Also allows remote configuration with TrikidisConfig.
- **Parallel reporting** – enable parallel sending of messages using the *main* channel and to Protegeus2.
- **Cloud Access Code** – 6-digit code for connecting with Protegeus2.

### Settings group "iButtons"

#### NOTE

More than one key can be assigned to a user! All newly registered keys will be assigned to the "**User ID9**" (No name). Names can be assigned only to eight users. Permissions for "**User ID9**" can be set using the settings group "**User ID9 permissions**".

- **ID** – key's number on the list.
- **User** – the user the key is assigned to. To assign a key to a user, change "**ID9**" to any other user's *ID* from the table "**Users & Reporting to User**". (e.g. to assign a key to user No. 3, change "**ID9**" to "**ID3**")
- **iButton code** – *iButton* key identification number or RFID card ID number.
- **Control** – choose what action the system must take after reading the key (e.g., TM17): None / Arm / Disarm / Arm & Disarm.

#### 4.4.1 Registration of contact (iButton) keys

1. If the "iButtons" list is empty, the first registered key is saved to the first line of the list and becomes the „**Master key**“.
2. To turn on contact key registration mode, hold the "**Master key**" against the key reader for at least 10 seconds. When registration mode is on, the TM17 key reader's LED

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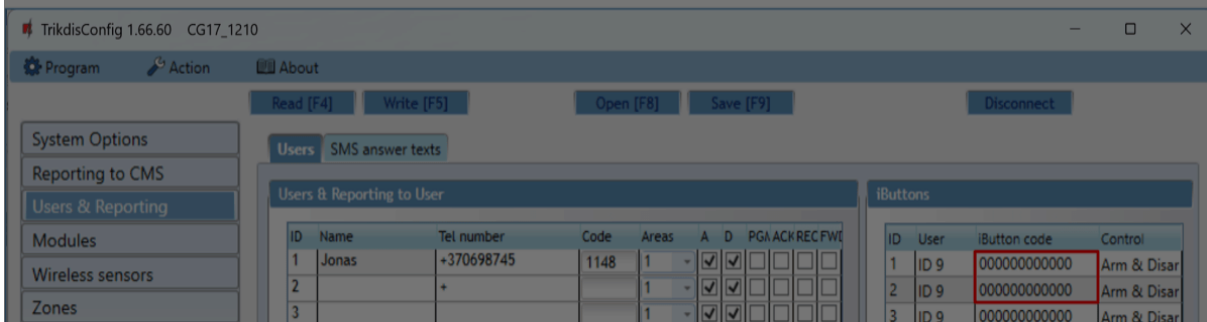
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**! IMPORTANT**

The "Master key" should only be used to register other contact keys!

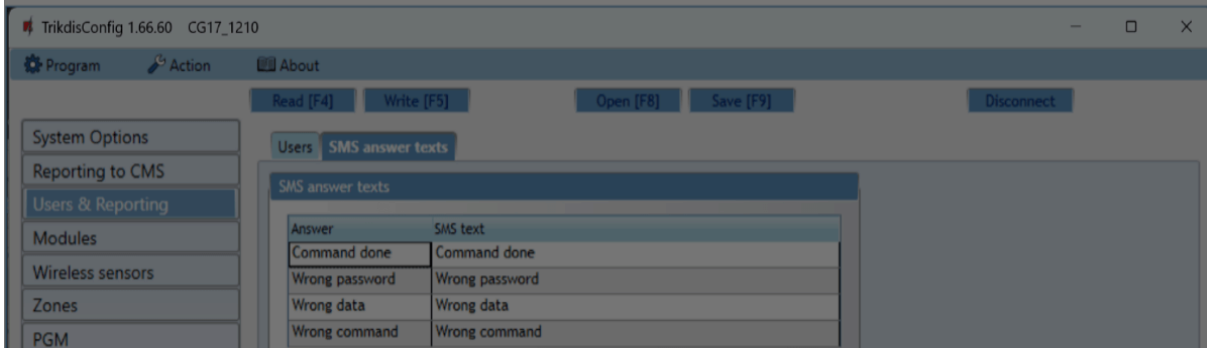
#### 4.4.2 Registration of RFID cards

The CG17 control panel with the iO-LORA module is used, to which an RFID reader with a keypad is connected. The ID number of the RFID card is entered in the "**iButton code**" field.



After making the changes click **Write [F5]**. Wait for the update to complete.

#### "SMS answer texts" tab



#### Settings group "SMS answer texts"

- Texts of answers to control commands sent using SMS messages can be edited in the

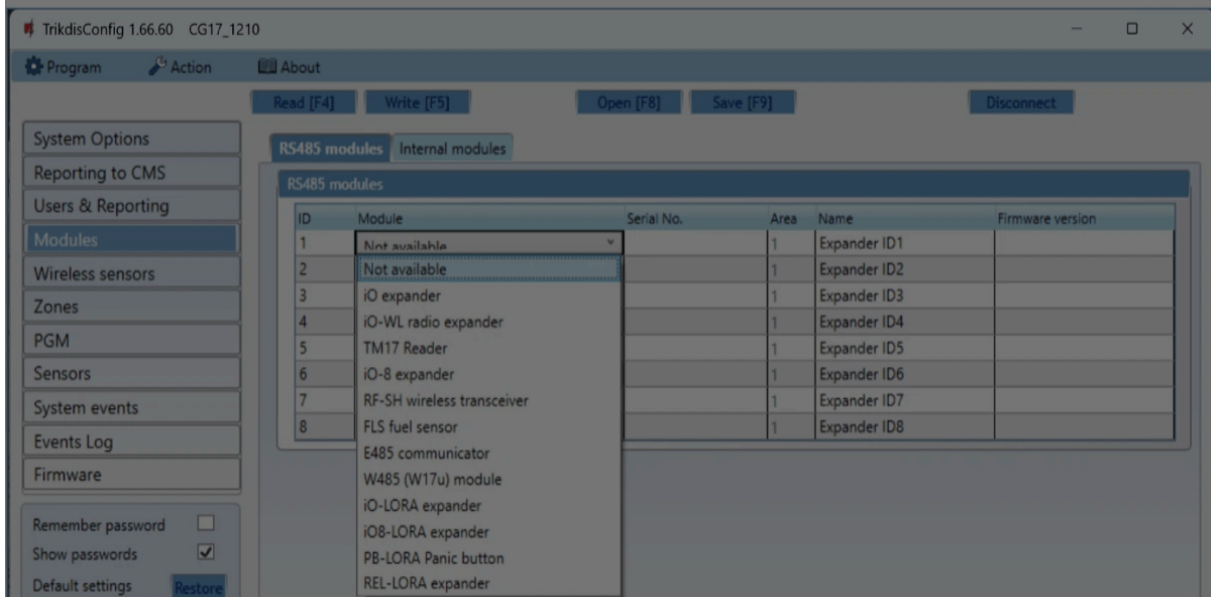
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## 4.5 “Modules” window



### Settings group “RS485 modules”

- **ID** – module’s number on the list.
- **Module** – choose the modules being used (modules iO, iO-WL, TM17, iO-8, RF-SH, FLS, E485, W485, iO-LORA, iO8-LORA, PB-LORA, REL-LORA) from a list of modules.
- **Serial No.** – mandatory 6-digit number that can be found on stickers on the casing of the module and on the packaging.
- **Area** – assign the module to an area (the TM17 will show the state of the area it is assigned to and also the state of the zones assigned to the area).
- **Name** – you can give a name to the module.
- **Firmware version** – the firmware version will be shown once the CG17 detects the connected module.

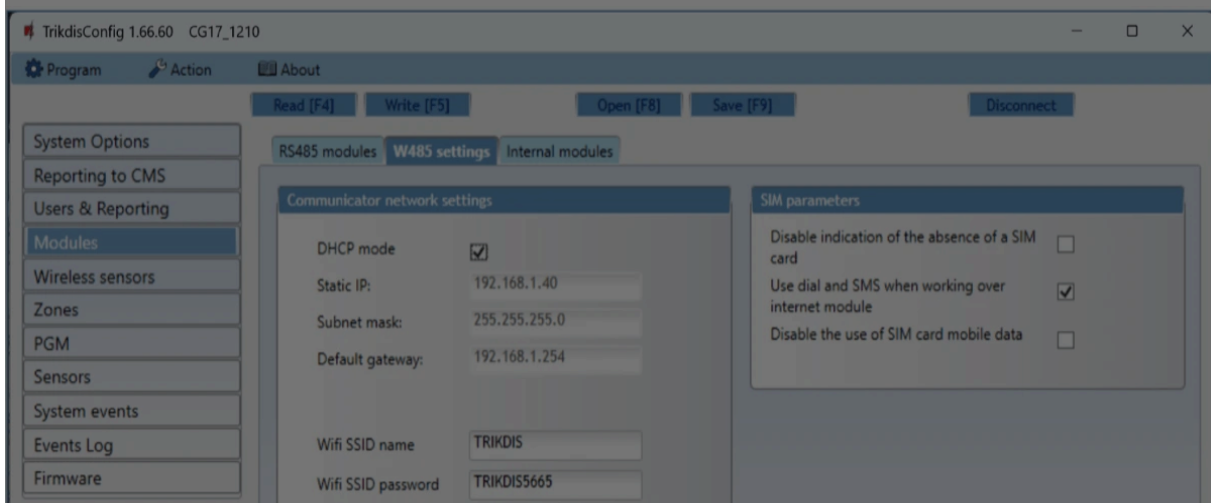
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## 4.5.1 WiFi module W485 settings window



### Settings group “Communicator network settings”

- **DHCP mode** – WiFi module’s mode for registering to network (manual or automatic).
- **Static IP** – static IP address for when manual registering mode is set.
- **Subnet mask** – subnet mask for when manual registering mode is set.
- **Default gateway** – gateway address for when manual registering mode is set.
- **Wifi SSID name** – name of the WiFi network that the W485 will connect to.
- **Wifi SSID password** - WiFi network password.

### Settings group “SIM parameters”

- **Disable indication of the absence of a SIM card** – checking this box will disable indication about SIM card absence when the CG17 is working without a SIM.
- **Use dial and SMS when working over internet module** – checking this box will enable sending notifications simultaneously via call, SMS and the connected WiFi module W485. If the field is unchecked and there is a WiFi network, then SMS and calls are not used. If the field is unchecked and there is no WiFi network, then CG17 can manage call and SMS messages. CG17 will send SMS messages to the user.

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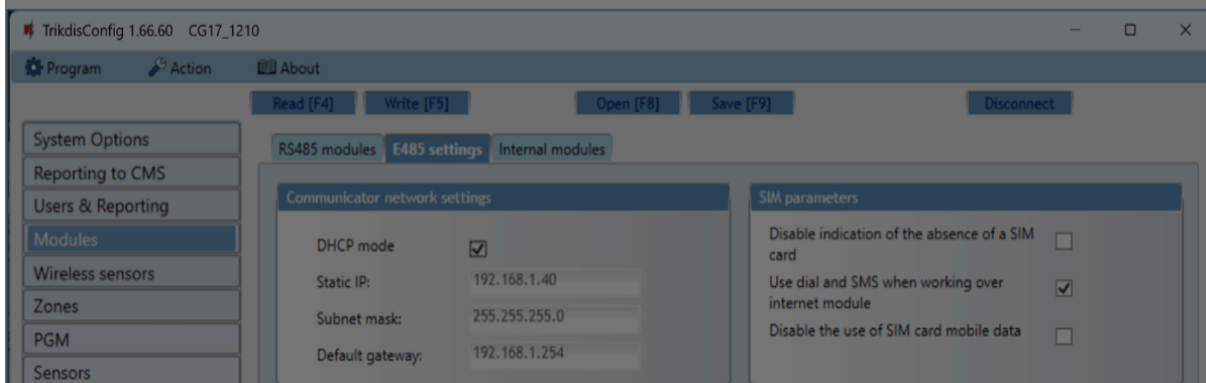
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**NOTE**

You must configure the CG17 to send messages to CMS and Protegus, see chapters 2.2 "Settings for connection with Central Monitoring Station" and 2.1 "Settings for connection with Protegus2 app". / **You do not need a SIM card, when using the W485 with the CG17 (firmware from Ver. 1.13) security panel.**

#### 4.5.2 "Ethernet" module E485 settings window



#### Settings group "Communicator network settings"

- **DHCP mode** – ethernet module's mode for registering to network (manual or automatic).
- **Static IP** – static IP address for when manual registering mode is set.
- **Subnet mask** – subnet mask for when manual registering mode is set.
- **Default gateway** – gateway address for when manual registering mode is set.

#### Settings group "SIM parameters"

- **Disable indication of the absence of a SIM card** – checking this box will disable indication about SIM absence when the CG17 is working without a SIM.
- **Use dial and SMS when working over internet module** – checking this box will enable

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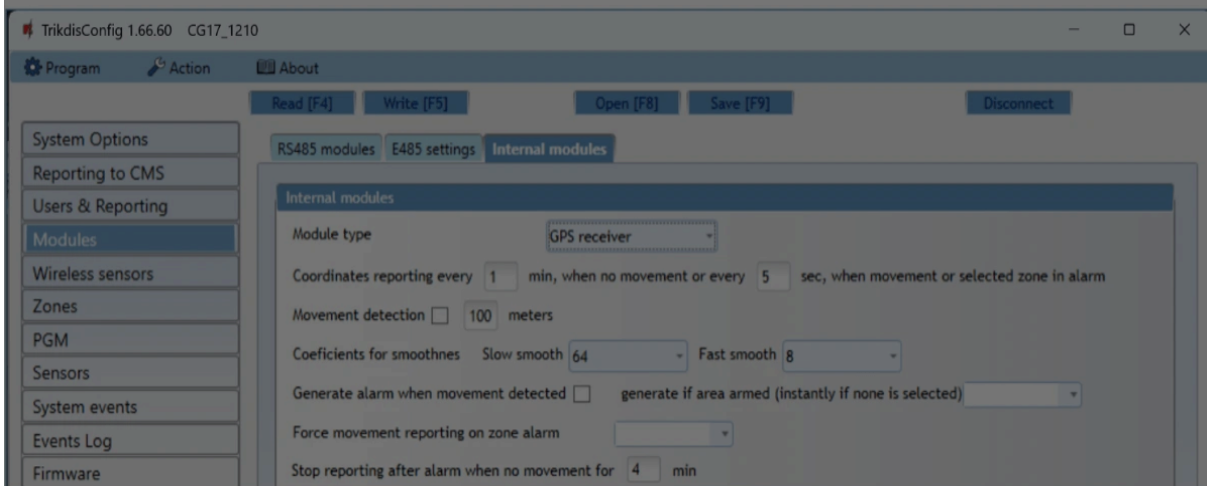


In the table, you can assign Contact ID event and restore codes to the RS485 data bus fault event. When connection between the E485 and CG17 is disrupted or re-established, the CG17 will send a message with the assigned CID code to the CMS and Protegus2 app.

#### NOTE

You must configure the CG17 to send messages to CMS and Protegus2, see chapters 2.2 "Settings for connection with Central Monitoring Station" and 2.1 "Settings for connection with Protegus2 app". / **You do not need a SIM card, when using the E485 with the CG17 (firmware from Ver.1.13) security panel.**

### "Internal modules" settings window



### Settings group "Internal modules"

- **Module type** – choose the GPS module that is being used.
- **Coordinates reporting every \_\_ min, when no movement or every \_\_ sec, when movement or selected zone in alarm** – specify intervals for sending coordinates when in ordinary mode and when movement is detected or the alarm is triggered in the zone.
- **Movement detection** – if the box is ticked, the alarm will be triggered if the difference

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- **Generate alarm when movement detected** – if the box is ticked, the CID event code is sent to the CMS and the user to the Protegus2, when movement is detected.
- **Force movement reporting on zone alarm** – specify the security system's zone to which a sensor is connected. If the sensor is triggered (interpreted as a zone alarm) the CG17 sends coordinates more often.
- **Stop reporting after alarm when no movement for \_\_ min** – specify time interval (in minutes). If the coordinates do not change and there is no zone alarm during this time, coordinate sending returns to ordinary mode.

Messages with the coordinates are sent to the monitoring program Monas MS.

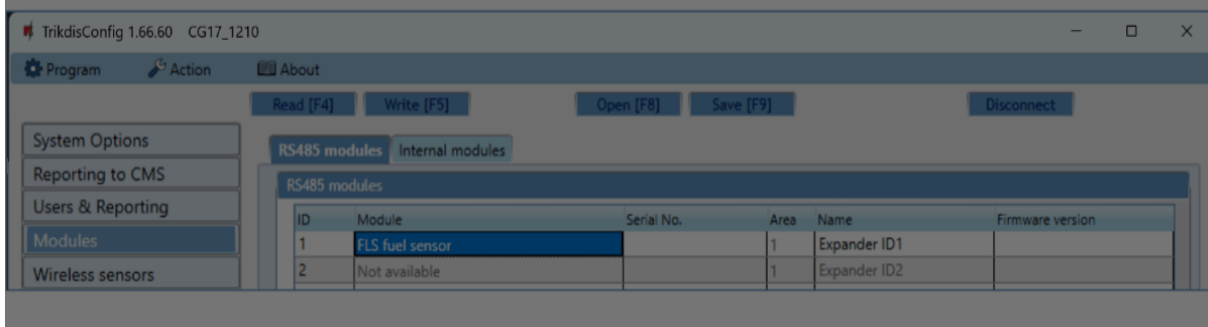
#### 4.5.3 Linking a fuel level sensor "STRELA RS485"

##### NOTE

The fuel level sensor "**Strela RS485**" must be calibrated with the manufacturer's software "**DUTconfig**" before being used. The fuel level sensor is connected to the computer using an adapter and then calibrated. Once the fuel level sensor "**Strela RS485**" is connected to the CG17, other RS485 modules (iO, iO-WL, TM17, iO-8, RH-SH, E485, W485, iO-LORA, iO8-LORA, PB-LORA, REL-LORA) will become inactive.

#### Settings group "RS485 modules"

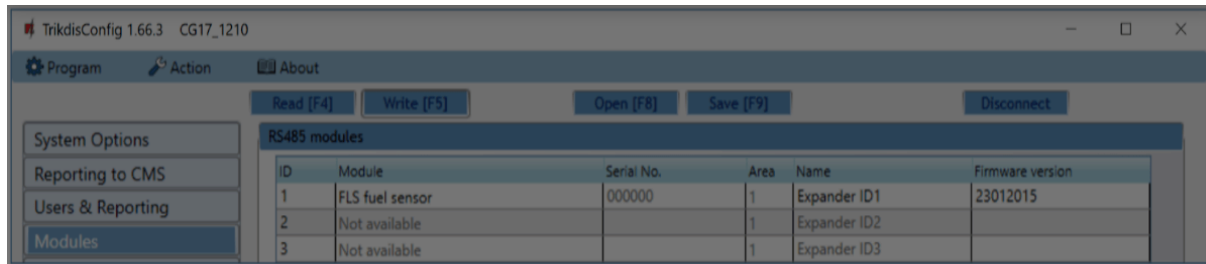
- **Module** – select the module **FLS fuel sensor**.



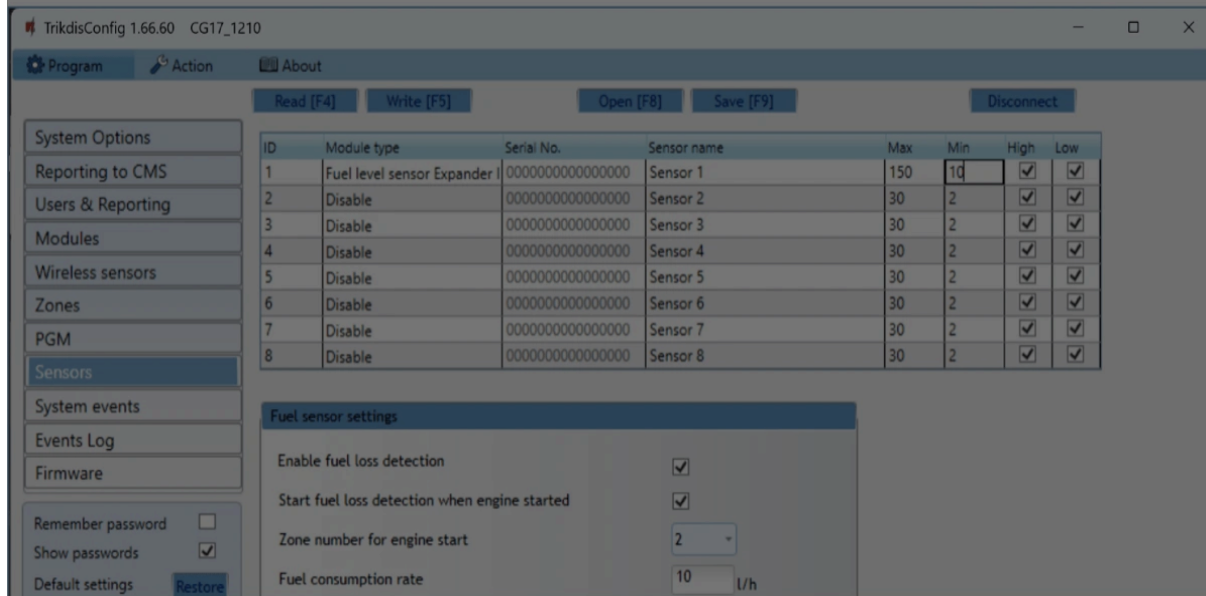
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Open the “**Sensors**” window.



- **Module type** – choose “**Fuel level sensor**”.
- **Sensor name** – name the sensor.
- **Max** – enter the maximum amount of fuel (in liters). When the actual amount is higher than specified in this setting, an event message will be formed. For the message to be sent, the “**High**” box must be ticked.
- **Min** – enter the minimum amount of fuel (in liters). When the actual amount is lower than specified in this setting, an event message will be formed. For the message to be sent, the “**Low**” box must be ticked.

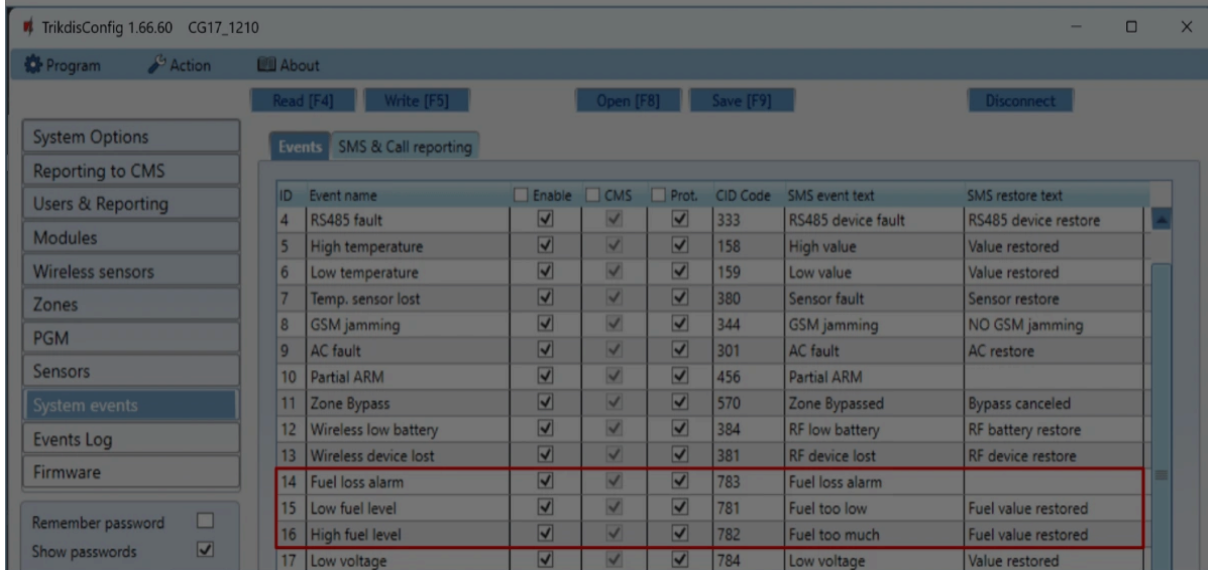
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The user will be informed about sudden fuel level changes with an SMS message. The user can edit the text of the SMS message.



Description of the operation of the fuel level sensor. The fuel level sensor **Strela RS485** is connected to the CG17 (see 3.10 „Schematics for connecting of the fuel level sensor Strela RS485”). The measuring parameters are set for the CG17. The fuel level sensor starts measurements:

1. When the box "**Enable fuel loss detection**" is ticked. When the power is turned on for the CG17, the fuel level sensor starts to monitor fuel consumption. Measurements stop when the power for the CG17 is turned off.
2. The boxes "Enable fuel loss detection" and "Start fuel loss detection when engine started" are ticked. Also, the number of the input (IN) that will start fuel level monitoring when it is enabled (engine is started) must be specified. When the input (IN) is restored (engine off) fuel level monitoring will be stopped.

Every time the fuel level sensor is turned on, it measures the current fuel level and compares it to the fuel level that was saved to memory before the sensor was turned off. If the current fuel level is lower, the CG17 sends messages about fuel loss to the security company and/or to users.

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## 4.6 “Wireless sensors” window



The CG17 can operate with Crow brand wireless Shepherd series sensors, sirens, remote controls using an **RF-SH** module.

### 4.6.1 Pairing a wireless device RF-SH transceiver to the CG17

1. Connect the **RF-SH** transceiver to the CG17 according to the schematic at **3.7 “Schematic for connecting a wireless sensor RF-SH transceiver”**.
2. Turn on the power.
3. Connect a USB Mini-B cable to the **CG17**.
4. Launch the TrikisConfig program, click the button **Read [F4]**.
5. In the „**Modules**” list, choose “**RF-SH wireless transceiver**”.
6. Enter the device’s serial number in the field “**Serial No**”.
7. Click **Write [F5]**.
8. Unplug the USB Mini-B cable.
9. Wait 1 minute for the CG17 and **RF-SH** to connect to each other.
10. Connect the USB Mini-B cable to the **CG17**.
11. Click **Read [F4]**.
12. The **RF-SH**’s firmware version will appear in the “**Modules**” window.
13. The **RF-SH** module is now paired to the CG17.

All wireless sensors can be paired at once.

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6. The green blinking **"LEARN"** LED indicator shows that the **RF-SH** is in wireless sensor linking mode.
7. Insert a battery into the wireless sensor and wait until the sensor's LED indicators stop blinking.
8. Briefly press the Tamper button on the sensor and release it.
9. After releasing the Tamper button, the sensor's LED indication will change:
  - a. Indicator is blinking in green and red – the sensor has been successfully added to the system.
  - b. Indicator is blinking only in green – sensor linking failed. Repeat the registration procedure.
  - c. Indicator blinking in red – battery voltage too low (change the battery).
10. Press and hold the **RF-SH** transceiver's **"LEARN"** button until the **"LEARN"** LED indicator stops blinking in green. The **RF-SH** transceiver has exited linking mode.
11. Connect a USB Mini-B cable to the CG17.
12. Launch TrikdisConfig, click the **Read [F4]** button.
13. There will be a list of registered wireless sensors in the **"Wireless sensors"** window of the TrikdisConfig program. The 7-symbol codes in the **"Serial No."** field must match the sensor codes found on the back of the casing or on the board.
14. The sensors must be assigned to the control panel's zones and areas (**"Zones"** window). After making the changes click **Write [F5]**.
15. The wireless sensor is now paired to the system.

#### NOTE

Deleting wireless sensors from the CG17's memory:

1. Connect a USB Mini-B cable to the CG17.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.

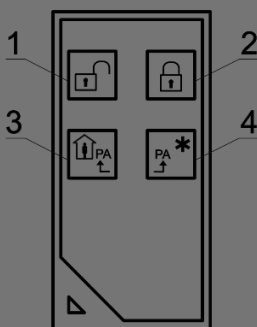
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2. Turn on the power.
3. Remove the lid from the RF-SH transceiver.
4. Press and hold the RF-SH module's "LEARN" button until the "LEARN" LED indicator starts blinking in green.
5. Release the button.
6. The green blinking "LEARN" LED indicator shows that the RF-SH is in wireless device linking mode.
7. Press buttons 3 and 4 on the wireless controller and hold. A LED indicator will start blinking in yellow. After a few seconds it will stop and a green indicator will light up for a short period of time.



8. Release the buttons 3 and 4. The wireless controller is linked.
9. Press and hold the **RF-SH** transceiver's "**LEARN**" button until the "**LEARN**" LED indicator stops blinking in green. The **RF-SH** transceiver has exited linking mode.
10. Connect a USB Mini-B cable to the CG17.
11. Launch TrikdisConfig, click **Read [F4]**.
12. In the TrikdisConfig software window "**Wireless sensors**", the text "**Keyfob**" must appear in the "**Device type**" field and the field "**Serial No.**" must have a 7-symbol code matching the code on the back of the remote keyfob.
13. In the "**Area**" field specify the security system area that the wireless controller will control (arm / disarm).

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 **NOTE**

Reverting the remote controller to default settings:

1. Press buttons 2 and 3 at once and hold until the indicator starts blinking in green and red.
2. You can release the buttons when the indicator stops blinking. The controller's memory is cleared.

#### 4.6.4 Pairing a wireless siren (FW2)

1. Make sure that the wireless **RF-SH** transceiver is linked to the CG17 (see chapter 4.6.1 above).
2. Turn on the power.
3. Remove the lid from the **RF-SH** transceiver.
4. Press and hold the **RF-SH** module's "**LEARN**" button until the "**LEARN**" LED indicator starts blinking in green.
5. Release the button.
6. The green blinking "**LEARN**" LED indicator shows that the **RF-SH** is in wireless device registration mode.
7. Remove the lid from the siren.
8. Connect a power supply to the siren.
9. The flash of the siren will blink rarely for 30 seconds. When the indicator stops blinking, the siren is ready for linking.
10. Press and hold the "**LEARN**" button on the siren's board.
11. The flash will start to blink.
12. Release the button. When the flash stops blinking, the siren will have linked.
13. Press and hold the **RF-SH** transceiver's "**LEARN**" button until the "**LEARN**" LED indicator stops blinking in green. The **RF-SH** receiver has exited linking mode.

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 **NOTE**

Reverting the wireless siren to default settings:

1. Remove the lid from the siren.
2. Disconnect the power from the siren.
3. Press the "**LEARN**" button on the siren's board and turn on the power.
4. Hold the "**LEARN**" button until the siren's flash blinks 3 times.
5. Release the "**LEARN**" button. The siren's flash will blink in rare intervals for another 30 seconds.
6. The flash will stop blinking. The wireless siren's default settings have been restored.

#### 4.6.5 Pairing wireless sensors (SH)

1. Make sure that the **RF-SH** transceiver is paired to the CG17 (see chapter 4.6.1 above).
2. Turn on the power.
3. Remove the lid from the **RF-SH** transceiver.
4. Press and hold the **RF-SH** module's "**LEARN**" button until the "**LEARN**" LED indicator starts blinking in green.
5. Release the button.
6. The green blinking "**LEARN**" LED indicator shows that the **RF-SH** is in wireless sensor linking mode.
7. Insert a battery into the wireless sensor and wait until the sensor's LED indicators stop blinking. When the linking process is complete, the green LED indicator will light up on the sensor for 3 seconds and then it will turn off.
8. If the linking process fails, the LED indicator will stop blinking. Remove the battery, wait for ~10 seconds and repeat the linking process.
9. Press and hold the **RF-SH** transceiver's "**LEARN**" button until the "**LEARN**" LED indicator

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14. The wireless sensor is now paired to the system.

#### NOTE

Deleting wireless sensors from the CG17's memory:

1. Connect a USB Mini-B cable to the CG17.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.
3. In the "**Wireless sensors**" window of TrikdisConfig, specify "**Disabled**" in the "**Device type**" field on the line of the **wireless sensor** that you want to delete and click **Write [F5]**. The wireless sensor is now deleted from the CG17's memory.

#### 4.6.6 Pairing a wireless keypad (SH)

1. Make sure that the wireless **RF-SH** transceiver is linked to the CG17 (see chapter 4.6.1 above).
2. Turn on the power.
3. Remove the lid from the **RF-SH** transceiver.
4. Press and hold the **RF-SH** module's "**LEARN**" button until the "**LEARN**" LED indicator starts blinking in green.
5. Release the button.
6. The green blinking "**LEARN**" LED indicator shows that the **RF-SH** is in wireless device linking mode.
7. Insert batteries into the keypad and wait for the  LED indicator to stop blinking in red and green. When the linking process is complete, the  LED indicator will light up in green for 3 seconds and then it will turn off.
8. Press and hold the **RF-SH** transceiver's "**LEARN**" button until the "**LEARN**" LED indicator stops blinking in green. The **RF-SH** receiver has exited linking mode.

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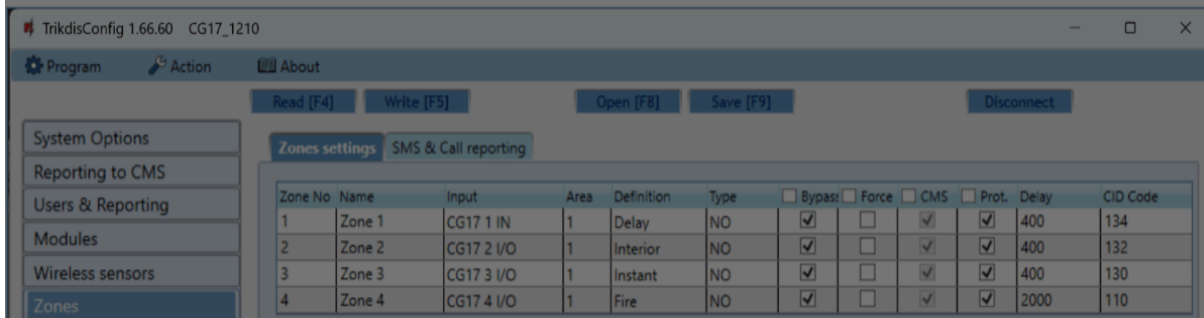
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**NOTE**

Removing wireless sensors from the CG17's memory:

1. Connect a USB Mini-B cable to the CG17.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.
3. In the "**Device type**" field of the TrikdisConfig window "**Wireless sensors**", instead of "**Keypad SH**", specify "**Disabled**" and click **Write [F5]**. The wireless keypad is now removed from the CG17's memory.

## 4.7 "Zones" window



### "Zones settings" tab

- **Zone No** - the zone's number on the list.
- **Name** - enter the name of the zone.
- **Input** - choose a CG17 or external module input IN to assign to the zone.
- **Area** - assign a zone to an area.
- **Definition** - you can assign every zone one of these functions:
- **Delay** - for connecting a magnetic entrance door contact. You can set entry and exit times for this type of zone.

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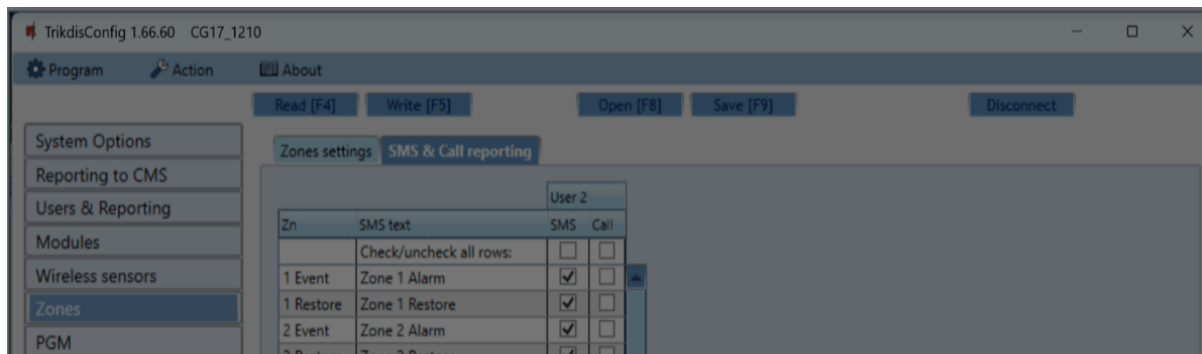
If the alarm is armed and the first zone to be violated is the "Delay" zone, the "Interior" zone may also be violated during the set entry time. If the alarm is not disarmed when the set entry time is up, outputs OUT "Siren" and "Flash" are turned on and alarm reports are sent. - **Instant** – for connecting movement sensors. If the "Instant" zone is violated when the alarm is armed, OUT outputs "Siren" and "Flash" are turned on and a message about the alarm being triggered is sent.

- **Fire** – for connecting fire sensors. If this zone is violated, OUT outputs "Siren" and "Flash" are turned on immediately and a message about the event is sent.
- **Keyswitch** – for connecting a keypad or other switch. If the switch violates this zone the security alarm will be armed or disarmed. The alarm will be armed again after the set "Exit time" passes.
- **24 hours** – for connecting glass break and tamper detectors. If this zone is violated, OUT outputs "Siren" and "Flash" are turned on immediately and a message about the event is sent.
- **Silent** – if the alarm armed and this zone is violated, an event message will immediately be sent, but "Siren" and "Flash" output signals will not be formed.
- **Silent 24h** – for connecting panic buttons. If this zone is violated, an event message will immediately be sent regardless of the state of the security system, but "Siren" and "Flash" output signals will not be formed.
- **Type** – choose the type of circuit connected to the zone input IN from the list: NC – normally closed, NO – normally open, EOL – end of line 10 kΩ resistor, EOL\_T – with an end of line resistor and tamper monitoring.
- **Bypass** – tick this box if you want to bypass a zone and ignore when it is triggered.
- **Force** – tick this box if you want to allow arming the security system with an open zone. If the alarm is armed, violating the zone that is in "Force" mode will trigger the alarm.
- **CMS**– if the box is ticked, event messages for this zone will be sent to CMS (Central monitoring station).
- **Prot.** – if the box is ticked, zone event reports will be sent to Protegus cloud.
- **Delay** –input IN zone reaction time, in milliseconds.
- **CID code** – Contact ID codes for events. The code will be set automatically when you

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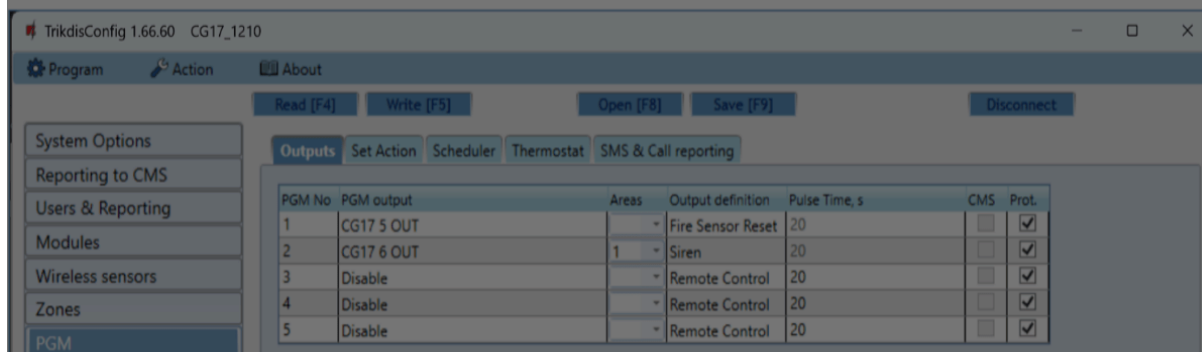


This window will only show if at least one user phone number is added in the “Users & Reporting” window.

- **Zn** – zone number with event identification word. Can be “Event” or “Restore”.
- **SMS text** – description of the zone event that will be used in SMS messages sent to users.
- **SMS/Call** – tick the ways in which users will be informed about events – SMS messages and/or calls.

## 4.8 “PGM” window

### “Outputs” tab



- **PGM No**– the PGM’s number on the list.

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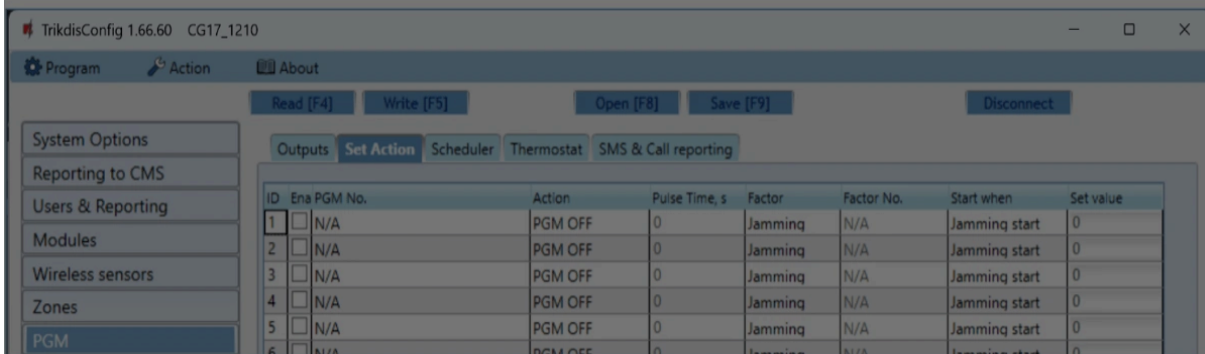
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- **Flash** – if the alarm is armed a line signal is formed, if it is triggered – a pulse type signal. The signal is cut off when the alarm is turned off.
- **Thermostat** - OUT output will be controlled according to the set temperature sensor temperature.
- **Pulse time, s** – you can set the desired OUT turn on duration from 0 to 9999 seconds.
- **CMS** – if this box is ticked, PGM output turn on/off reports will be sent to the central monitoring station (CMS).
- **Prot.** – if the box is ticked, PGM output turn on/off reports will be sent to Protegus cloud.

### “Set Action” tab



- **ID** – output’s number on the list.
- **Enable** – enables the PGM.
- **PGM No.** – choose the desired PGM output OUT that will be controlled when the event specified in the columns **Factor**, **Factor No.**, **Start when**, **Set value** happens.
- **Action:**
- **PGM OFF** – state of output OUT – “Off”.
- **PGM ON** – state of output OUT – “On”.
- **Pulse OFF** – initial state of output OUT - „On“. After a command the OUT state will become “Off” during the “**Pulse time**”, and later it will automatically return to the initial “On” state.
- **Pulse ON** – initial state of output OUT - “Off”. After a command the OUT state will

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- **Start when** – you can set an additional condition when to turn on the output OUT depending on the “**Factor**” event.
- **Set value** – depending on the selected condition in the “**Factor**” column (*SMS received, Sensor*), you can set the value (text of the incoming SMS message or specify the voltage or temperature value) that will be used to control the PGM output.

The text of the SMS message can be distinguished by the % symbols. % symbol separates the PGM control keyword from all SMS text.

**%....%** - the text portion of an incoming SMS message must match the text entered between % symbols (example: **%sMS%**. In the SMS message text should contain the text „**sMS**“.

Example of SMS message: **1155sMS332**).

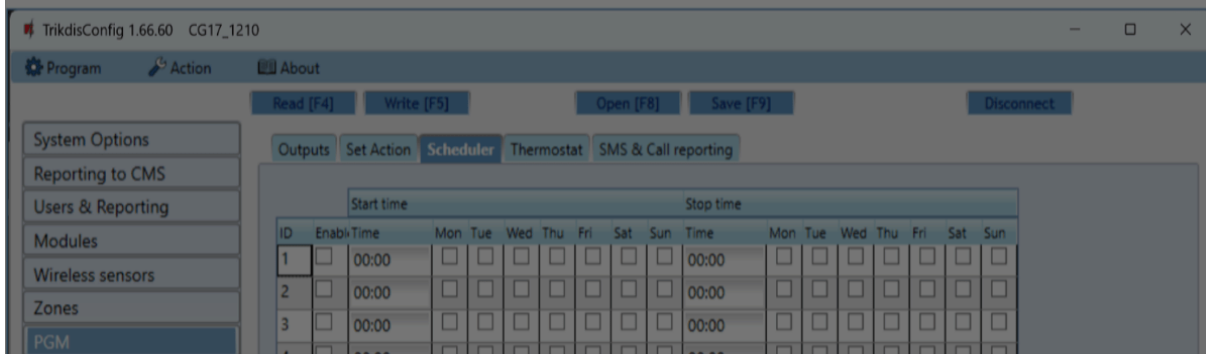
**....%** - the start of the text of the incoming SMS message must match the text recorded before the % symbol (example: **sMS%**. The SMS message text must start the text „**sMS**“.

Example of SMS message: **sMS332**).

**%....** - the end of the text of the incoming SMS message must match the text recorded after the % symbol (example: **%sMS**. The SMS message text must end the text „**sMS**“. Example of SMS message: **1155sMS**).

SMS text messages are important uppercase and lowercase letters.

### “Scheduler” tab

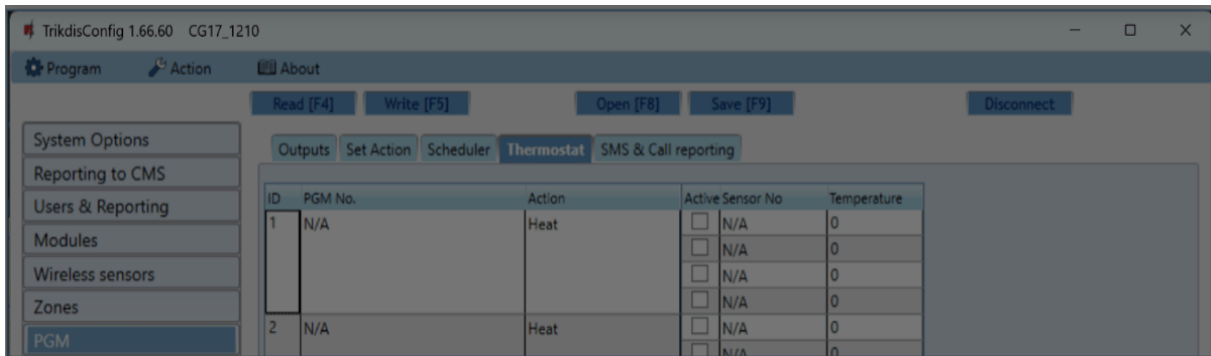


- **ID** – schedule’s number on the list.

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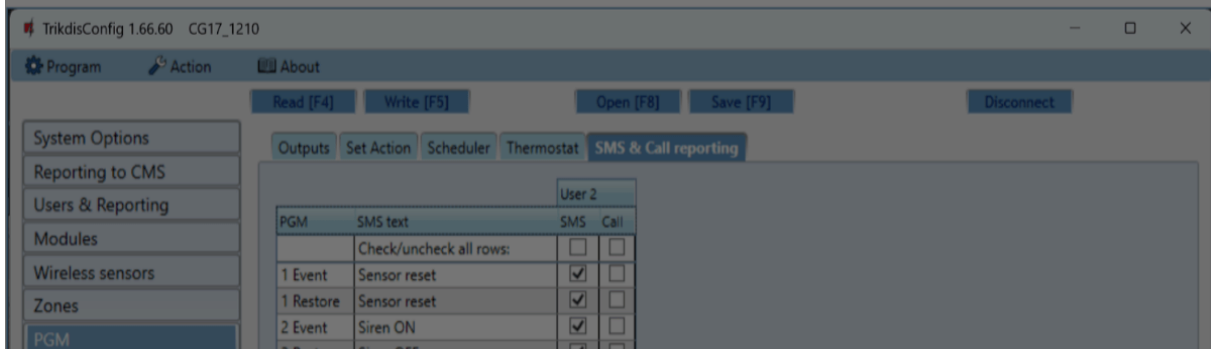
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- **ID** – thermostat's number on the list.
- **PGM No.** – specify the number of the PGM output that the thermostat will control.
- **Action** – specify the thermostat's operational mode: heat or cool.
- **Active** – if the box is ticked, the thermostat will work with the chosen temperature sensor according to the set temperature.
- **Sensor No** – assign a temperature sensor to a thermostat.
- **Temperature** – set the temperature that the thermostat will maintain.

### “SMS & Call reporting” tab



This window will only show if at least one user phone number is added in the “Users & Reporting” window.

- **PGM** – output OUT number and turn on/turn off event type (“Event” – output OUT turn

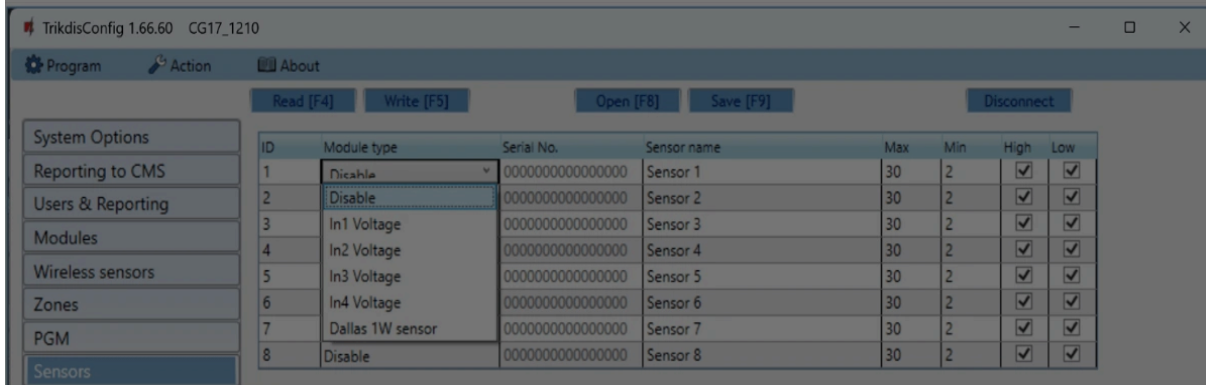
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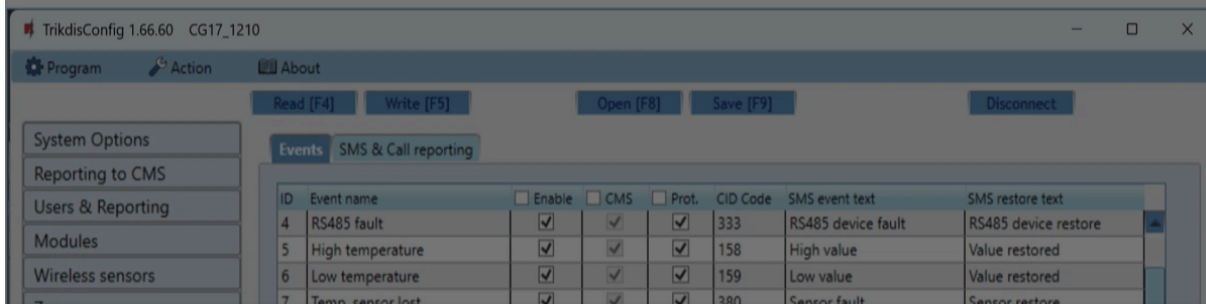
## 4.9 "Sensors" window



- **ID** – sensor's number on the list.
- **Module type** – the chosen temperature sensor will be assigned to the ID.
- **Serial No.** - serial number of the temperature sensor read by the control panel.
- **Sensor name** – give the temperature sensor a name.
- **Max** – when the temperature is higher than this setting, an event message will be generated. For an event message to be generated, the **"High"** box must be ticked.
- **Min** – when the temperature is lower than this setting, an event message will be generated. For an event message to be generated, the **"Low"** box must be ticked.

## 4.10 "System events" window

### "Events" tab



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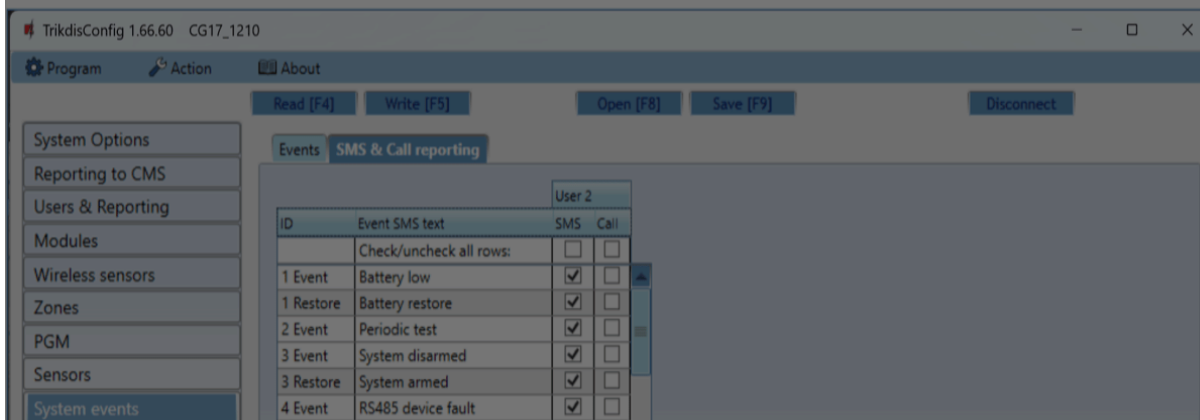
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- **CID code** – event's Contact ID code.
- **SMS event text** – event SMS message text.
- **SMS restore text** – SMS message text of restore event.

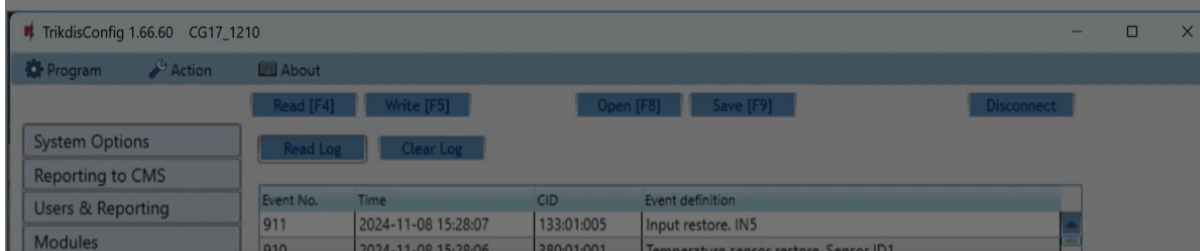
### “SMS & Call reporting” tab



This tab will only show if at least one user phone number is added in the “Users & Reporting” window.

- **ID** – event number and identification word (*Event, Restore*).
- **Event SMS text** – text that will be used in event SMS messages.
- **User / SMS and Call** – choose how to inform users about every type of event – via SMS message and/or phone call.

### 4.11 “Events Log” window



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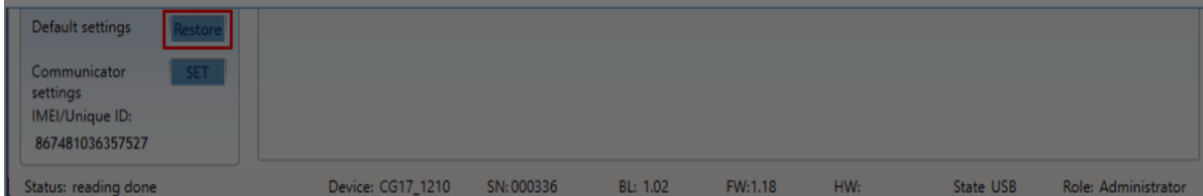
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- You can find the **“Event No.”**, **“Time”**, **“CID”** code, **“Event definition”** in the table. Up to 1000 events saved in the CG17’s memory can be displayed in the **“Events Log”**.

## 4.12 Restoring default settings

To restore the control panel’s default settings, click the **“Restore”** button in the TrikdisConfig program.



## 5. Remote control

### 5.1 Control with *Protegeus2* app

Using Protegeus2 users can control their security system remotely. They can also see the system state and receive notifications about system events.

1. Download and launch the Protegeus2 app or use the browser version [www.protegeus.app](http://www.protegeus.app).



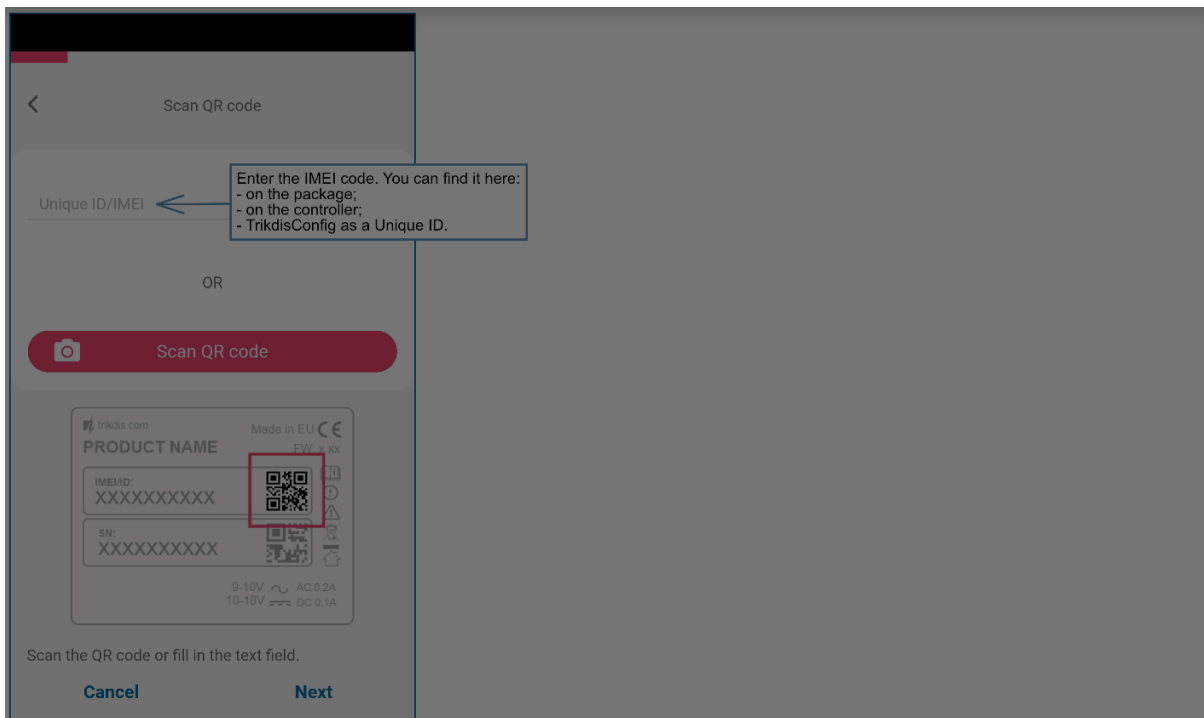
2. Log in with your user name and password or register and create a new account.
2. Click **“Add new system”** and enter the CG17s IMEI code in the **“Unique ID”** field. You can find this number on the device or packaging sticker.

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### ⚠ IMPORTANT

When adding the CG17 to Protegus2:

1. The Protegus cloud service must be enabled. Turning on the service is described in chapter 4.4 "**Users & Reporting**" window (settings group "**Cloud application**");
2. An activated SIM card must be inserted and the PIN code must be entered or disabled;
3. The power must be on ("**POWER**" LED must be green solid);
4. Must be connected to the network ("**NETWORK**" LED must be green solid and blink yellow).

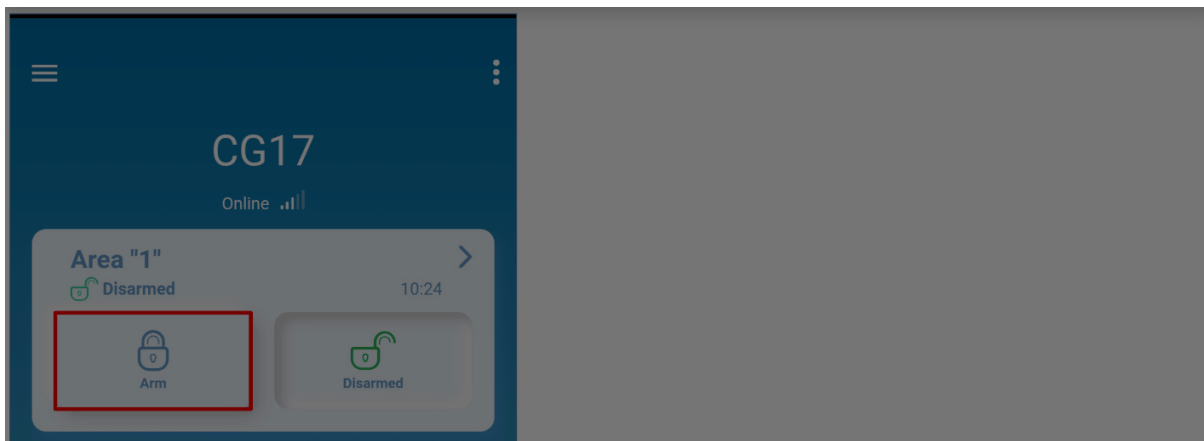
If "**NETWORK**" or "**DATA**" is yellow solid, the device is unable to connect to GSM and/or Protegus2.

## 5.11 Arming/disarming the alarm system with Protegus2

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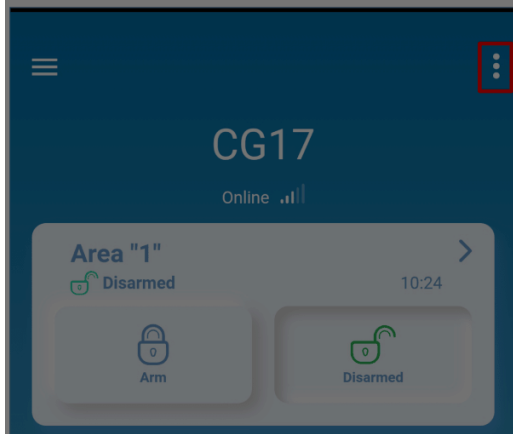
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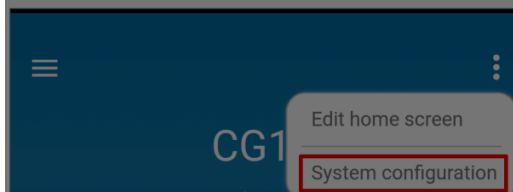
### 5.1.2 Add other users to Protegus2

Launch Protegus2 application on your phone. Log in with your user name and password.

1. Click „**Settings**“.



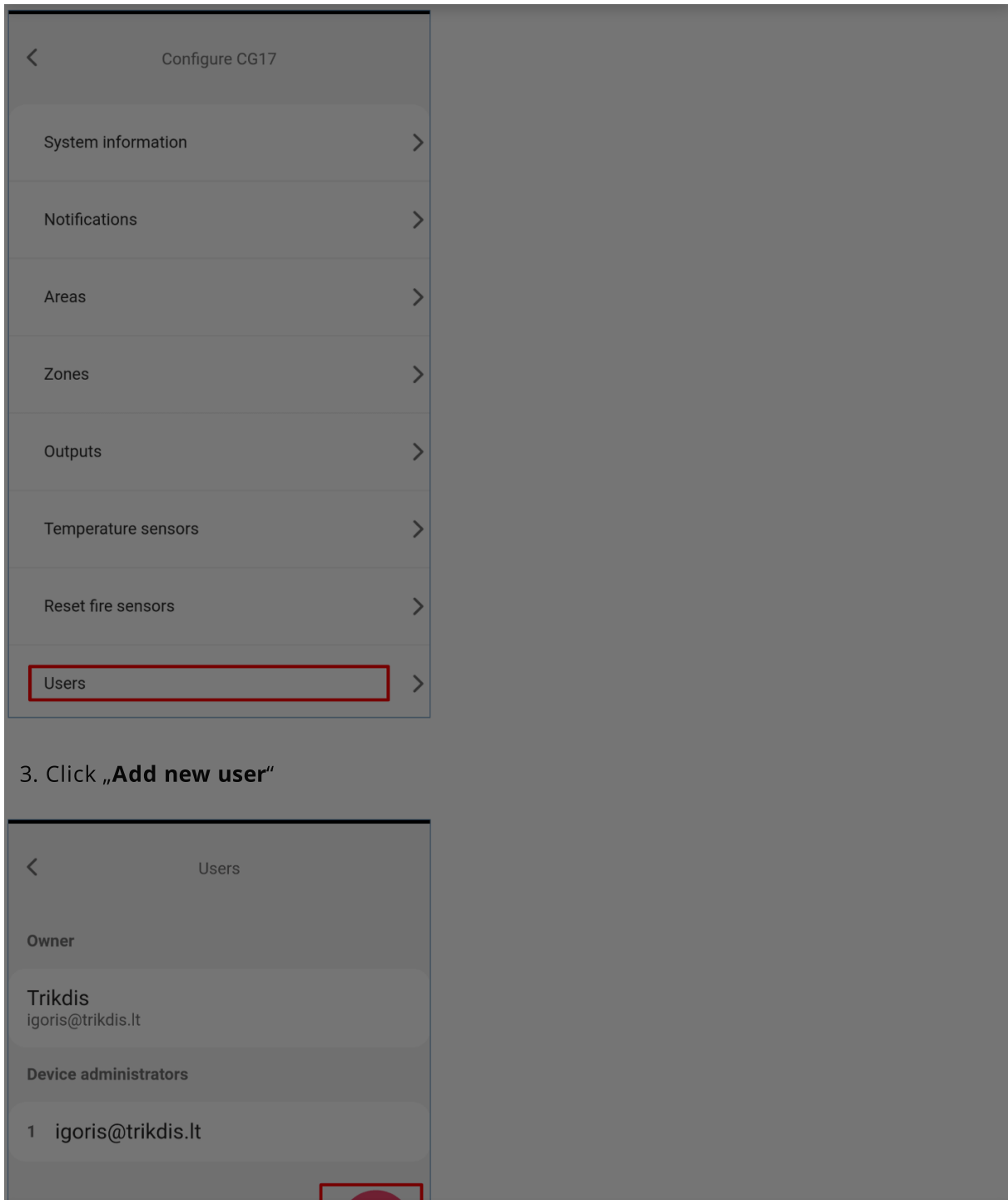
1. Click „**System configuration**“.



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8. Mark the PGM output that the user will control.

9. Click „**Add user**“.

< Add new user

Name/e-mail  
jonas@trikdis.lt

Phone number  
+370698754

Code  
3241

Can edit user list

Can see events

Can bypass zones

Can access adv. settings

Allow to control areas

Area "1"

Allow to control outputs

PGM3

Cancel Add user

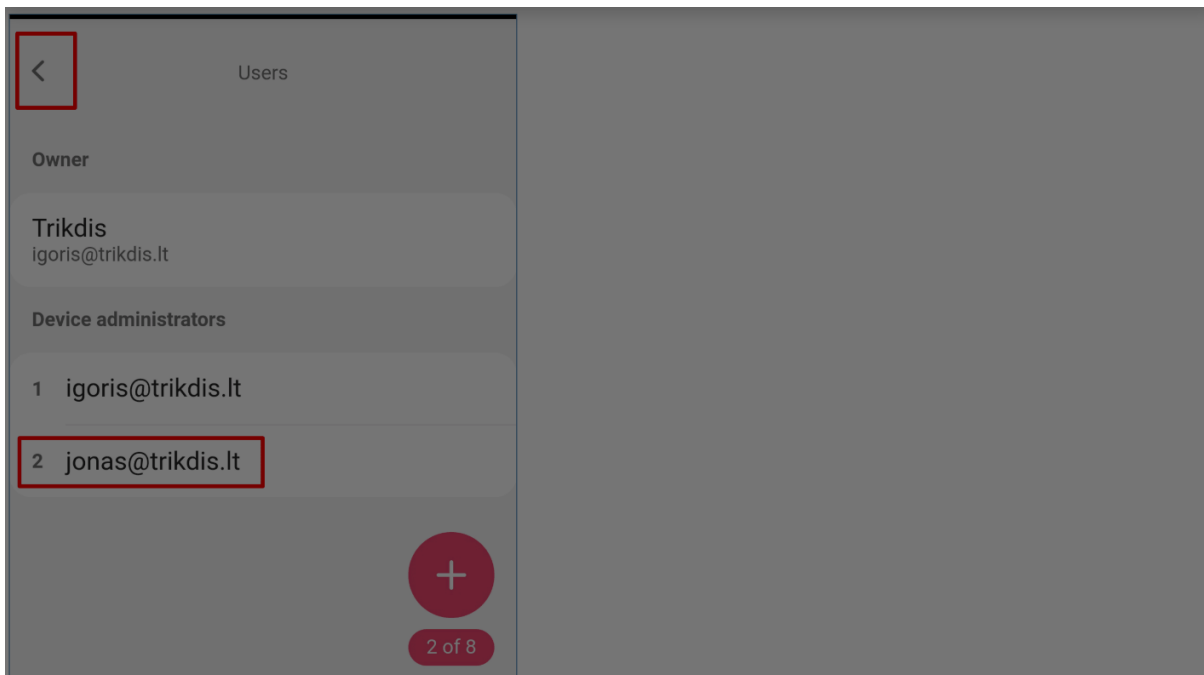
11. A new user appears in the user list.

12. Click „**Back**“ to return to the main window.

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## 5.2 Control using SMS commands

### 1. Arm or disarm the security system with SMS commands

**ARM xxxxxx SYS:x**

**DISARM xxxxxx SYS:x**

**xxxxxx**

**6-symbol administrator password (default - 123456)**

**x**

Area number of the security system (1-8)

### 1. Change the administrator password

To ensure safety, change the default administrator SMS password. Send an SMS message of this format:

#### 5.2.1 PSW 123456 xxxxxx

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## 5.2.2 SETN xxxxxx PHONEx=+PHONENR# NAME

xxxxxx	6-symbol administrator password
x	User's number on the list. (If you write 1 as the user number, you will transfer your administrator's rights to another user).
PHONENR	User's phone number
NAME	User's name

### 1. Reset the smoke detectors

Reset the smoke detectors remotely using an SMS message:

## 5.2.3 FRS xxxxxx

### NOTE

6-digit administrator password

### NOTE

The output OUT that the fire sensors are connected to must have type "**Restore fire sensors**" set. Output "**5 OUT**" has this type set by default.

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## 5.2.4 SMS commands list

Command	Data	Description
INFO		Request information about the controller. Controller type, IMEI number, serial number and firmware version will be included in the answer. / E.g.: INFO 123456
RESET		Reset the device. E.g.: RESET 123456
OUTPUTx	ON	Turn on an output, "x" is the output number. E.g.: OUTPUT1 123456 ON
	OFF	Turn off an output, "x" is the output number. / E.g.: OUTPUT1 123456 OFF
PULSE=ttt	Turn on an output for a specified time - "x" is the OUT output number, and "ttt" is a three-digit number that specifies pulse time in seconds.	
PULSE=ttt	E.g.: OUTPUT1 123456 PULSE=002	
PSW	New password	Change password. E.g.: PSW 123456 654123
TIME	YYYY/MM/DD,12:00:00	Set date and time. E.g.: TIME 123456 2018/01/03,12:23:00
TXTA	Object name	Save an object name. E.g.: TXTA 123456 House
TXTE	Z1= / ..... / Z12=	Customize zone alarm SMS message: Z1...Z12 - input zone number.
TXTE	Z1= / ..... / Z12=	E.g.: TXTE 123456 Z1=ALARM in Zone1
TXTR	Z1= / ..... / Z12=	Customize zone restore text: Z1...Z12 - input zone number. / E.g.: TXTR 123456 Z1=Restore Zone1
RDR	PhoneNR#SMStext	Forward SMS messages to the specified number. The phone number must start with a "+" sign and international country code.

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Command	Data	Description
DISARM	SYS:x	Disarm the alarm, "x" is the area number (1-8). / E.g.: DISARM 123456 SYS:1
ARM	SYS:x	Arm the alarm, "x" is the area number (1-8). E.g.: ARM 123456 SYS:1
FRS		Resets the fire sensor's output, if the output OUT is assigned the function "Restore fire sensors". E.g.: FRS 123456
SETN	PhoneX=PhoneNR#Name	Add a phone number, username and assign it to user "x". "x" is the phone number's line on the list. The phone number must start with a "+" symbol and international country code. The phone number and username must be separated by a "#" symbol. / E.g.: SETN 123456 PHONE5=+37061234567#JOHN
	PhoneX=DEL	Delete user's phone number and name. / E.g.: SETN 123456 PHONE5=DEL
UUSD	*Uusd code#	Sends a UUSD code to the operator. E.g.: UUSD 123456 *245#
CONNECT	Protegeus=ON	Connect to Protegeus cloud service. / E.g.: CONNECT 123456 PROTEGUS=ON
CONNECT	Protegeus=OFF	Disconnect from Protegeus cloud service.
CONNECT	Code=123456	E.g.: CONNECT 123456 PROTEGUS=OFF
CONNECT	IP=0.0.0.0:8000	Protegeus cloud service code. E.g.: CONNECT 123456 CODE=123456
CONNECT	IP=0	Specify the main server's connection channel's TCP IP and Port.
CONNECT	ENC=123456	E.g.: CONNECT 123456 IP=0.0.0.0:8000
CONNECT	APN=Internet	For turning off the main

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Command	Data	Description
SETHx	Sy=2	number, which can be 1,2,3,4. Sets the temperature of the „y“ mode (4 modes can be assigned). / E.g. (assign the first thermostat to the second mode at + 45oC): / SETH1 123456 T2=45
SETHx	O=1	Sets the number of the temperature sensor in „y“ mode (4 modes can be assigned) by which the measurement will be made. / E.g. (assign 2 temperature sensors to the second thermostat for the first mode): SETH2 123456 S1=2
SETHx	A=2	The thermostat is assigned an OUT output (must be set to an OUT output of "Remote Control" or "Thermostat"). / E.g. (assign first output to first thermostat): SETH1 123456 O=1
SETHx	M=C	Specifies the thermostat operating temperature sensor (select one of the four thermostat operating temperature sensors specified). / E.g. (assign the first thermostat to the third thermostat temperature sensor): SETH1 123456 A=3
SETHx		The operating mode of the thermostat is set: C - cooling; H - heating. / E.g. (set cooling mode for the first thermostat): SETH1 123456 M=C
SETHx		A single SMS message can change one or more settings. Individual settings are separated by commas. / E.g.: SETH2 123465 T2=55,S3=5,A=3,O=1,M=H / For the second thermostat set a second temperature of + 55oC; the third mode will operate according to temperature sensor 5; a mode 3 temperature sensor will be active: assigned

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## 5.3 Control using phone call

### NOTE

If no users have been added to the system, the first one to call the CG17 will become the system administrator and will be the only one who can control the CG17 using phone calls and SMS commands. / If you want to allow other users to control the system using phone calls, add them with TrikdisConfig or with SMS commands.

### CG17 phone call control commands

Controlling outputs OUT using phone calls:

1. If the security system has 1 area or the user is not assigned the right to control outputs: call the CG17 and the controller will decline the call. The security system's protection mode will change to the opposite state.
2. If the user is assigned the right to control outputs OUT and the output OUT is assigned the type "Remote control" (using TrikdisConfig), or the security system CG17 has 2 or more areas: call the CG17. The CG17 will answer the call and you can dial commands using the phone keyboard (see table below).

#### Mobile phone keyboard commands list

Keyboard buttons	Function	Description
[1]	Change protection mode	Change the protection mode to the opposite of the current one. E.g.: 1
[2][output no][#][state no][*]	Control selected output OUT	Controls a specified output OUT. State: [0] – output turned off; [1] – output turned on; [2] – turned off for pulse time; [3] – turned on for pulse time; (pulse time is specified in the TrikdisConfig software, "PGM" table) [] – this symbol shows the end of the command. E.g. (turn on the output 5OUT): 21#1E.g.

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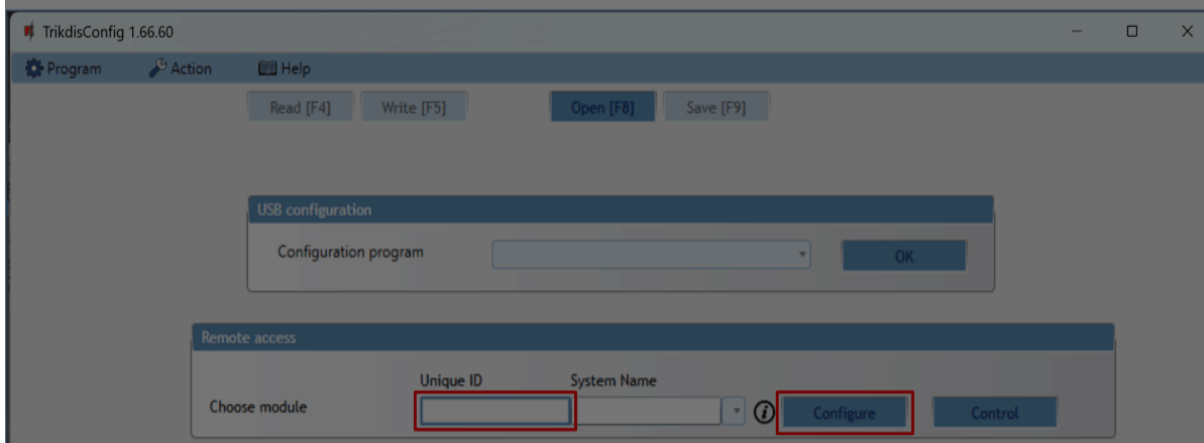


## 5.4 Setting parameters remotely

### ⚠ IMPORTANT

Remote configuration will only work when:

1. The "Protegeus cloud" service is enabled. Turning on the service is described in chapter 4.4 "Users & Reporting" window (settings group „Cloud application");
2. An activated SIM card is inserted and the PIN code is entered or disabled;
3. The power is on ("POWER" LED is green solid);
4. Is connected to the network ("NETWORK" LED is green solid and blinks yellow).



1. Download the software TrikdisConfig from [www.trikdis.com](http://www.trikdis.com).
2. Make sure that the controller is connected to the Internet and that connection with Protegeus is enabled.
3. Launch the configuration software TrikdisConfig and in the "Unique ID" field of the "Remote Access" group enter the IMEI number of your CG17 (the IMEI number can be found on stickers on the back of the device and on the packaging).

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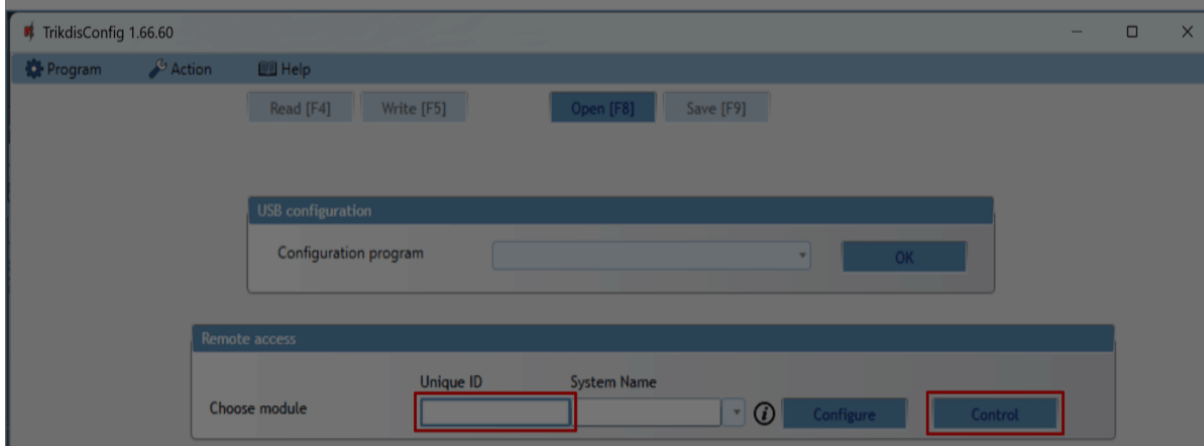
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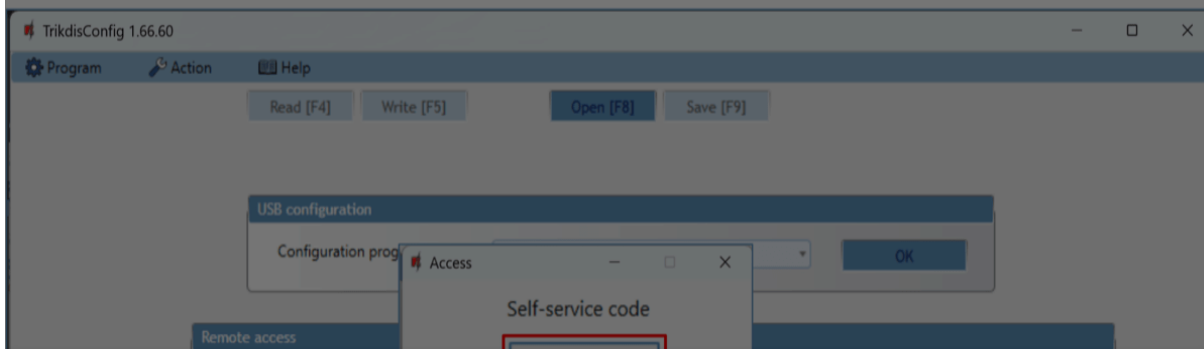


## 5.5 Remote control with TrikdisConfig

1. Download the configuration software TrikdisConfig from [www.trikdis.com/](http://www.trikdis.com/) (enter "TrikdisConfig" in the search field) and install it.
2. Make sure the control panel is connected to the internet. The "Proteagus cloud" service must be enabled.
3. Launch the configuration software TrikdisConfig and in the "**Unique ID**" field of the "Remote Access" group enter the IMEI number of your CG17 (the IMEI number can be found on stickers on the back of the device and on the packaging).



1. Click "**Control**".
2. Enter the "**Self-service code**" (default code – 123456) and press the "**OK**" button.



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CG17 Remote Control

Account ID: 1212

GSM level: 8

Status: Online

Refresh every 30 seconds [Refresh](#)

Partitions Zones PGM outputs Temperature

ID	Name	State	Mode	
1	Area 1	Disarmed	ARM	DISARM
2	Area 2	Armed	ARM	DISARM
3	Area 3	Disarmed	ARM	DISARM
4	Area 4	Disarmed	ARM	DISARM
5	Area 5	Armed	ARM	DISARM
6	Area 6	Armed	ARM	DISARM
7	Area 7	Armed	ARM	DISARM
8	Area 8	Armed	ARM	DISARM

3. **"Zones"** tab. This window shows the status of the zones. The Bypass of zone can be activated.

CG17 Remote Control

Account ID: 1212

GSM level: 8

Status: Online

Refresh every 30 seconds [Refresh](#)

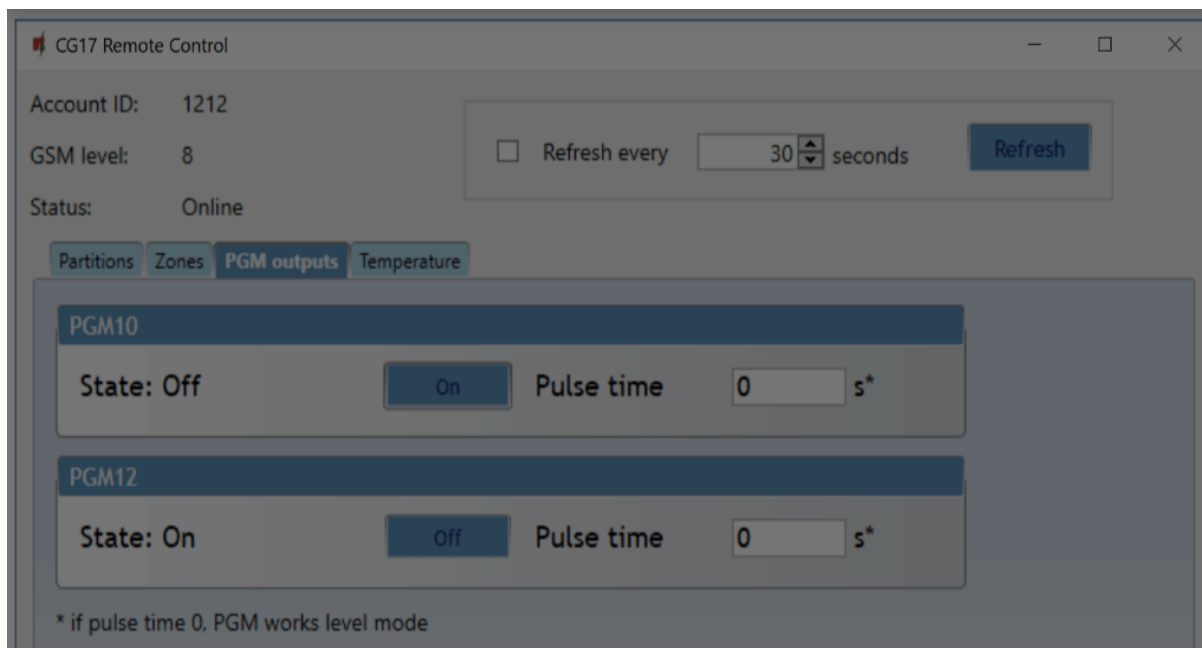
Partitions **Zones** PGM outputs Temperature

ID	Name	Status	Bypass
1	Zone 1	Ready	<a href="#">Bypass</a>
2	Zone 2	Ready	<a href="#">Bypass</a>
3	Zone 3	Ready	<a href="#">Bypass</a>
4	Zone 4	Ready	Bypassed <a href="#">Bypass off</a>
5	Zone 5	Ready	<a href="#">Bypass</a>
6	Zone 6	Ready	<a href="#">Bypass</a>

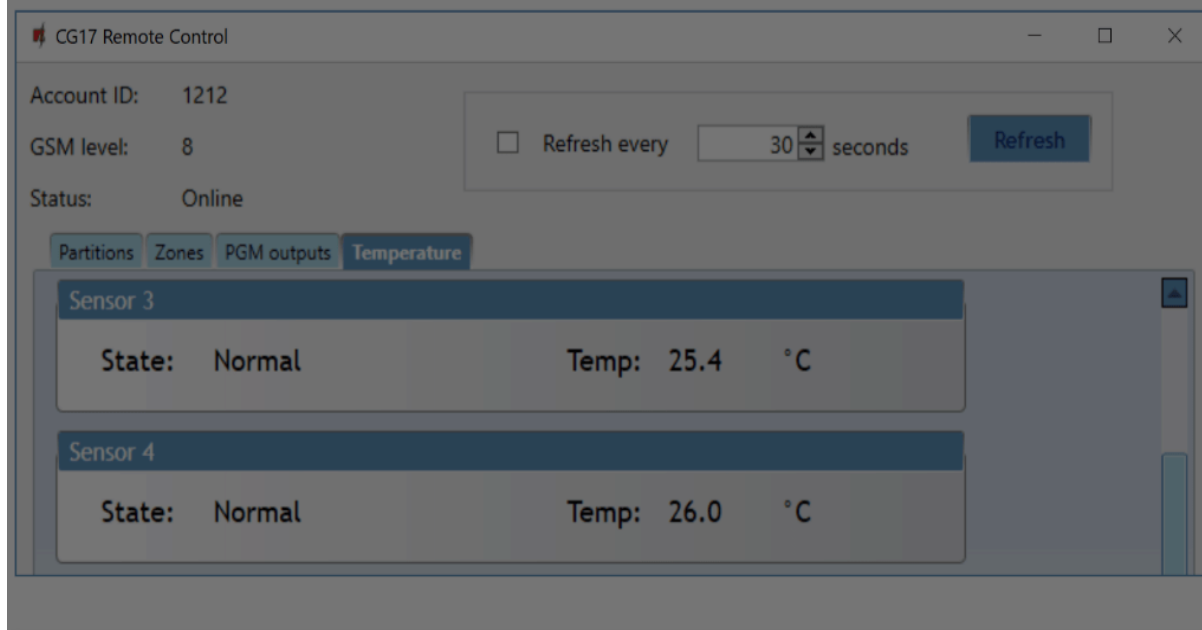
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10. **“Temperature”** tab. In this window, you can monitor the readings of temperature sensors.



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3. To test the CG17's inputs, enable them and check if the correct messages reach the recipients;
4. To test the CG17's outputs, activate them remotely and check if the correct messages reach the recipients and the outputs are activated correctly;
5. Test the alarm to make sure that the central monitoring station accepts the events correctly.

## 7. Updating firmware of the CG17

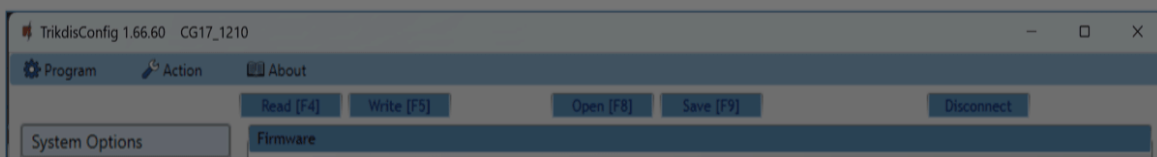
### NOTE

When the CG17 is connected to TrikdisConfig, the program will automatically offer to update the firmware if updates are available. Internet connection is required for this function. / If antivirus software is installed on your computer, it may block the automatic firmware update function. In this case you will have to reconfigure your antivirus software.

The CG17's firmware can be updated or changed manually. All prior CG17 settings remain after the update. When the firmware is changed manually, it can be upgraded or downgraded.

Complete these steps:

1. Launch ***TrikdisConfig***.
2. Connect the CG17 to a computer using a USB Mini-B cable or connect to the CG17 remotely. If a newer version of firmware is available, the program will offer to install it.
3. Open the "**Firmware**" window.



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4. Click the button **“Open firmware”** and choose the required firmware file.
5. Click the update button **Update [F12]**.
6. Wait for the update to complete.

## 8. Contents

## 9. Safety precautions

The electronic intruder alarm system should only be installed and maintained by qualified personnel.

Please read this manual carefully prior to installation in order to avoid mistakes that can lead to malfunction or even damage to the equipment.

Always disconnect the power supply before making any electrical connections.



Any changes, modifications or repairs not authorized by the manufacturer shall render the warranty void.

Please adhere to your local waste sorting regulations and do not dispose of this equipment or its components with other household waste.

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