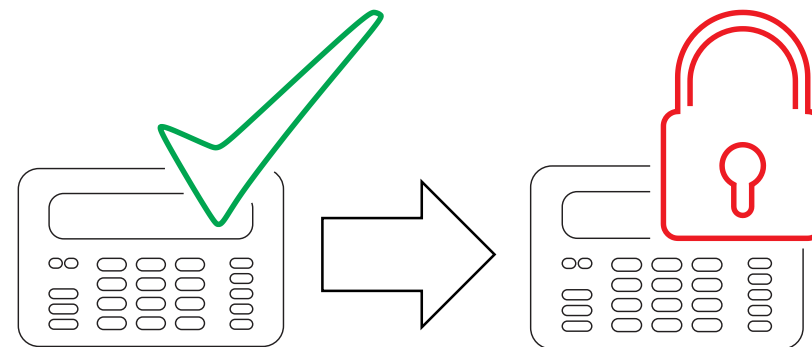
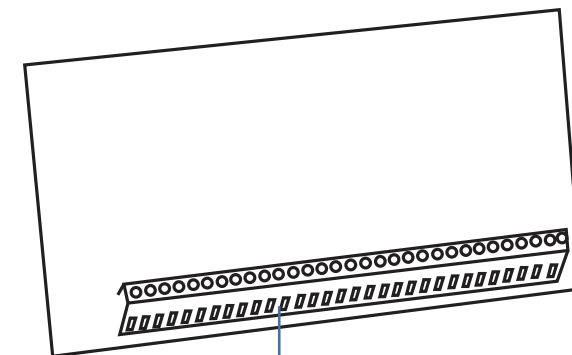
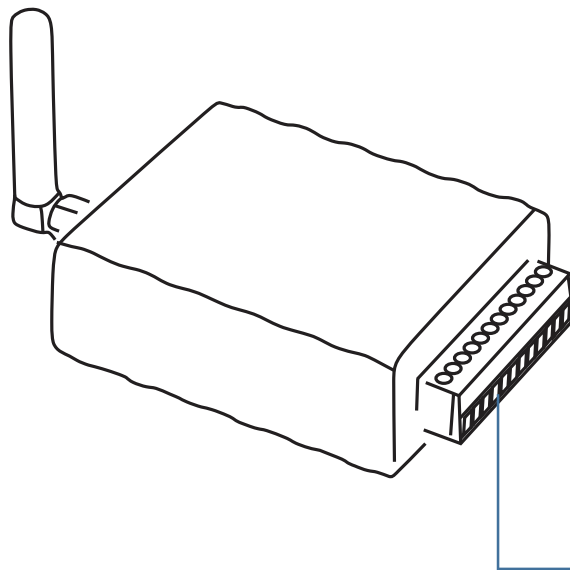
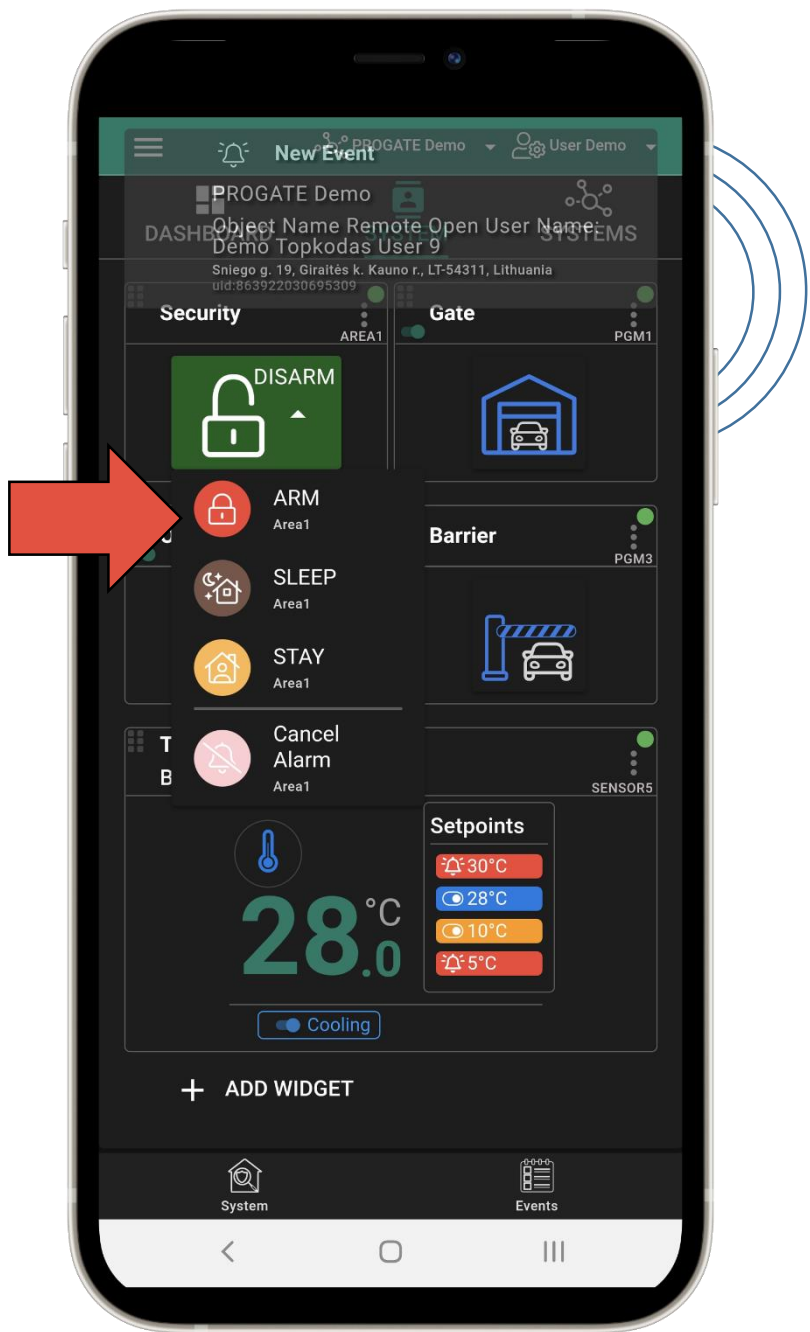
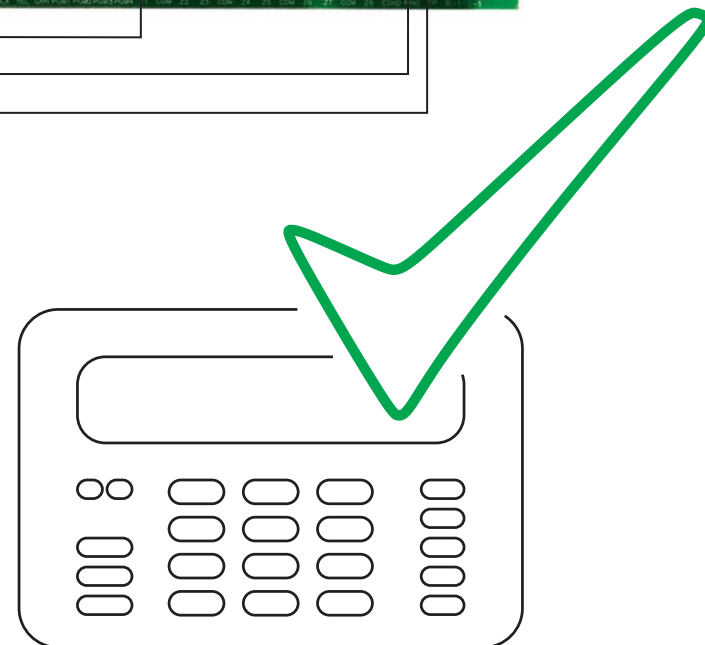


GTCOM2 and primary alarm panel synchronization methods



NEW 2022-04-05





USER able to control panel via panel's keypad as well as remotely from GTCOM2 APP/WEB/SMS/Call.

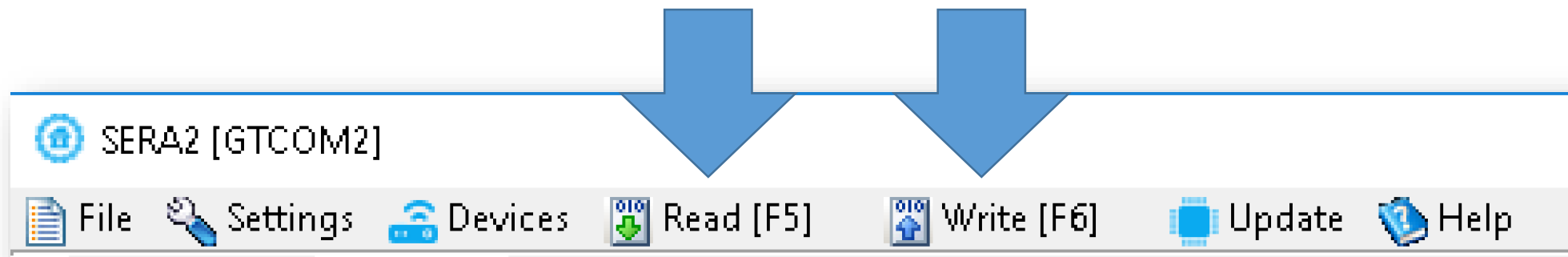
- This means that the GTCOM2 APP will show the same system status as
- keypad of security panel.

GTCOM2 & primary panel status synchronization

The module can work with any central panel which has PSTN communicator and meets Ademco Contact ID data format according to SIA SIA DC-05 standard. Also Central panel must support phone number dialing using DTMF tones.

Prepare SERA2 software

- Install SERA2 software (you will find it in <https://www.topkodas.lt/>)
- Help & Support > Downloads
- If you want to edit existing configuration,
- You have to read it (press “Read” in the command line)
- Edit settings
- Write edited configuration (press “Write” in the command line)



Set primary panel

Panel's PSTN communication settings:

- Set communication enabled
- Set communicator account number 4 digits. E.g. "1234"
- Set communications Telephone. Enter the monitoring station receiver's telephone number (you can use any number longer than 2 digits. The GTCOM2 pick up and answer when the panel calls to any phone number). Telephone number e.g. "1234" .
- Set communication dialing options to [DTMF Dialing]*
- Set Communications protocol to [DTMF Contact ID]*
- If panel has such option set [Contact ID Automatic Reporting Codes]
- Enable PSTN communication events upon your needs
Open/Close/Alarm/Restore/Maintenance/Test

Set Panel PGM to monitoring ARM status in level (steady) Mode

- Activation event:[ARM Area1]
- Deactivation Event : [DISARM Area1]
- Mode: [Steady]
- NO/NC depending of GTalarm2 input keyswitch settings.
- In our example set to [NO]

Set Panel Keyswitch to Momentary (Pulse) Mode

- Zone Type : [Keyswitch Momentary] (Pulse)
- Area Assignment: [Area 1] (Set AREA you want to control)
- Keyswitch Action: [ARM/DISARM]

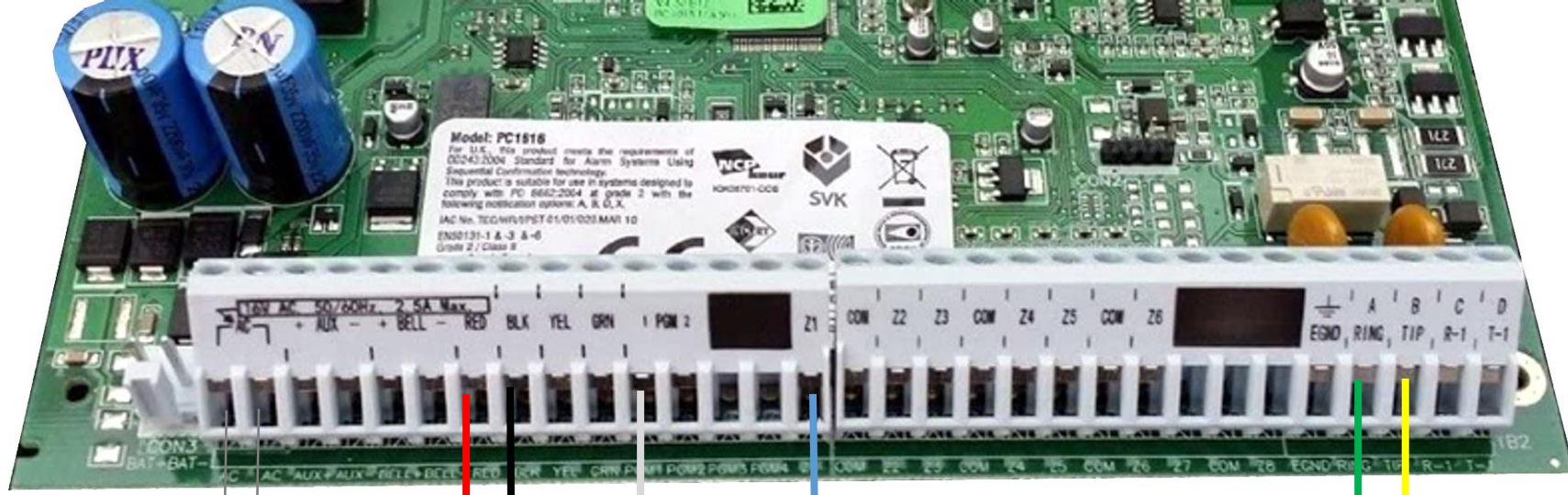
Set Panel Keyswitch to Momentary (Pulse) Mode

- Zone Type : [Keyswitch Momentary] (Pulse)
- Area Assignment: [Area 1] (Set AREA you want to control)
- Keyswitch Action: [ARM/DISARM]

Set GTCOM2 module

GTCOM2 and primary alarm panel synchronization

by Panel's PGM



Transformer
~18-24V

AC 110-220V

Topkoda

GTCOM2

GSM/PSTN Communicator

REG ☐

DATA ☐

PWR ☐

LINE ☐

DTMF ☐

DC 10-24V
Max 0.2A

To Panel

Inputs/
Outputs

Inputs
WIEGAND
Reader

1-WIRE
Sensors
iButton

RS485
BUS

DC+

COM

TIP

RING

IO1

IO2

IN1/D0

IN2/D1

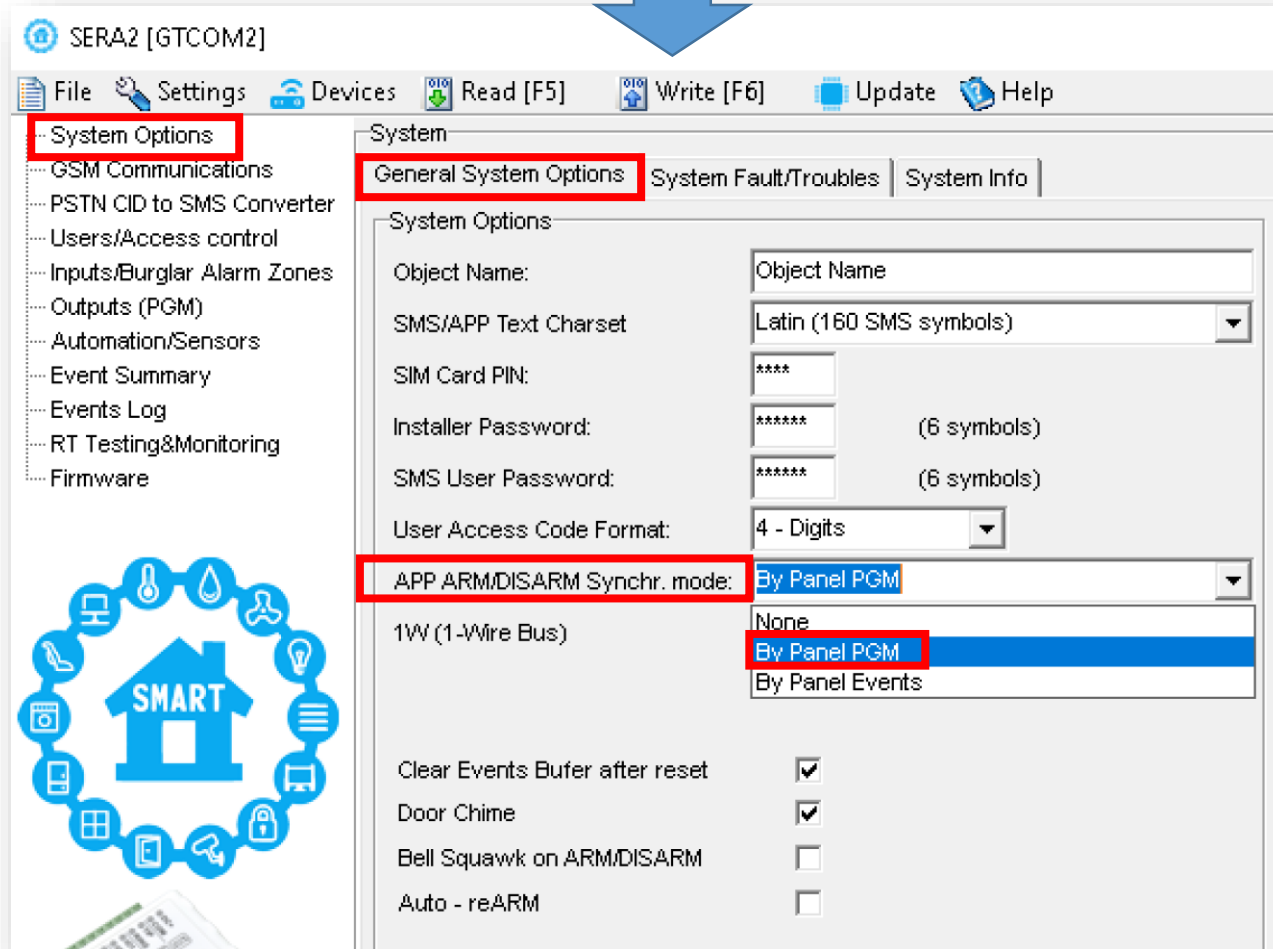
1W

+5V

A

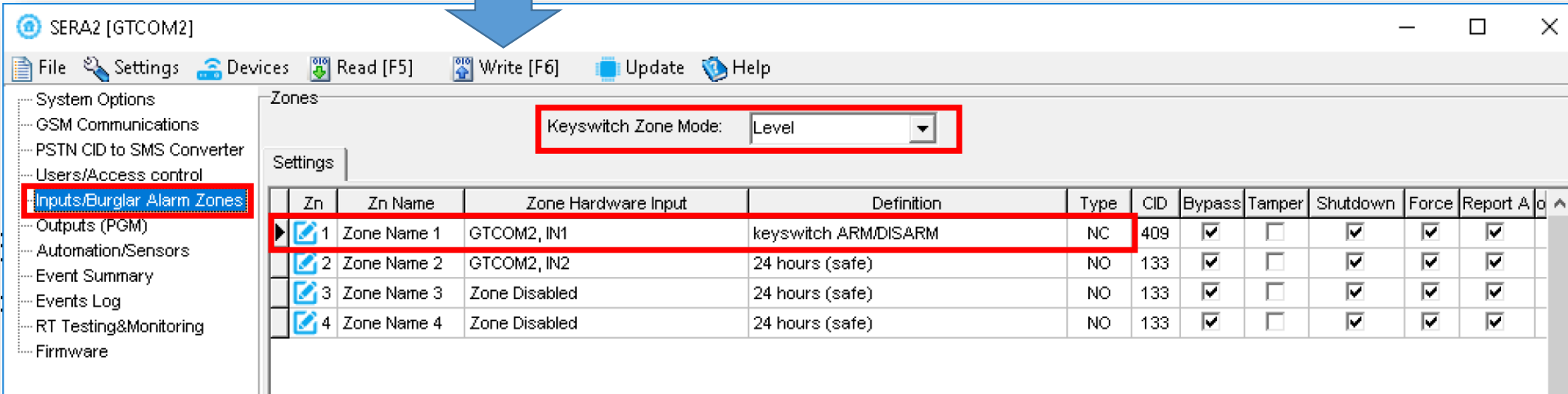
B

- Go to SERA2> System Options> General System Options
- Set App ARM/ DISARM Synchr mode to “By Panel PGM”



Set GTCOM2 keyswitch zone

- Go to SERA2> Inputs> Burglar Alarm Zones and set:
- Keyswitch Zone Mode : [Level] (Steady)
- Definition: [keyswitch ARM/DISARM]
- Type: [NC]
- Press “Write”

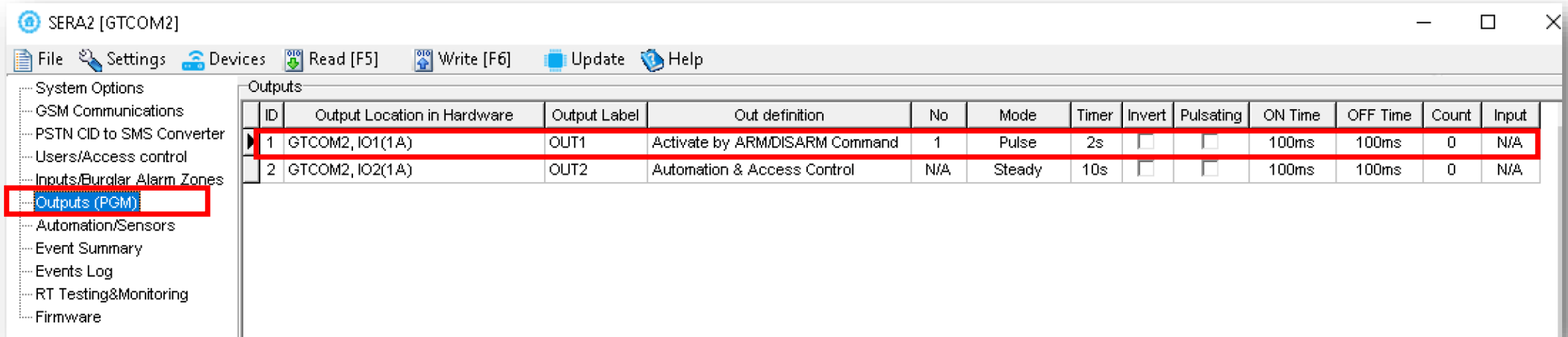


The screenshot shows the SERA2 [GTCOM2] software interface. A blue arrow points to the 'Inputs/Burglar Alarm Zones' menu item in the left sidebar, which is highlighted with a red box. The main window displays the 'Zones' settings. A red box highlights the 'Keyswitch Zone Mode' dropdown menu, which is set to 'Level'. Below this, a table lists the configured zones. The first zone, 'Zone Name 1', is highlighted with a red box and has its 'Definition' set to 'keyswitch ARM/DISARM' and 'Type' set to 'NC'.

Zn	Zn Name	Zone Hardware Input	Definition	Type	CID	Bypass	Tamper	Shutdown	Force	Report A	Report B
1	Zone Name 1	GTCOM2, IN1	keyswitch ARM/DISARM	NC	409	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Zone Name 2	GTCOM2, IN2	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Zone Name 3	Zone Disabled	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Zone Name 4	Zone Disabled	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Set module PGM action on ARM/DISARM command from APP/CALL/SMS/iButon

- Out Definition: [Activate by ARM/DISARM Command]
- No: [1] (this is partition number)
- Mode: [Pulse]
- Timer: [2s] (this is PGM pulse time on ARM/DISARM command)



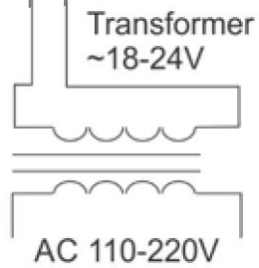
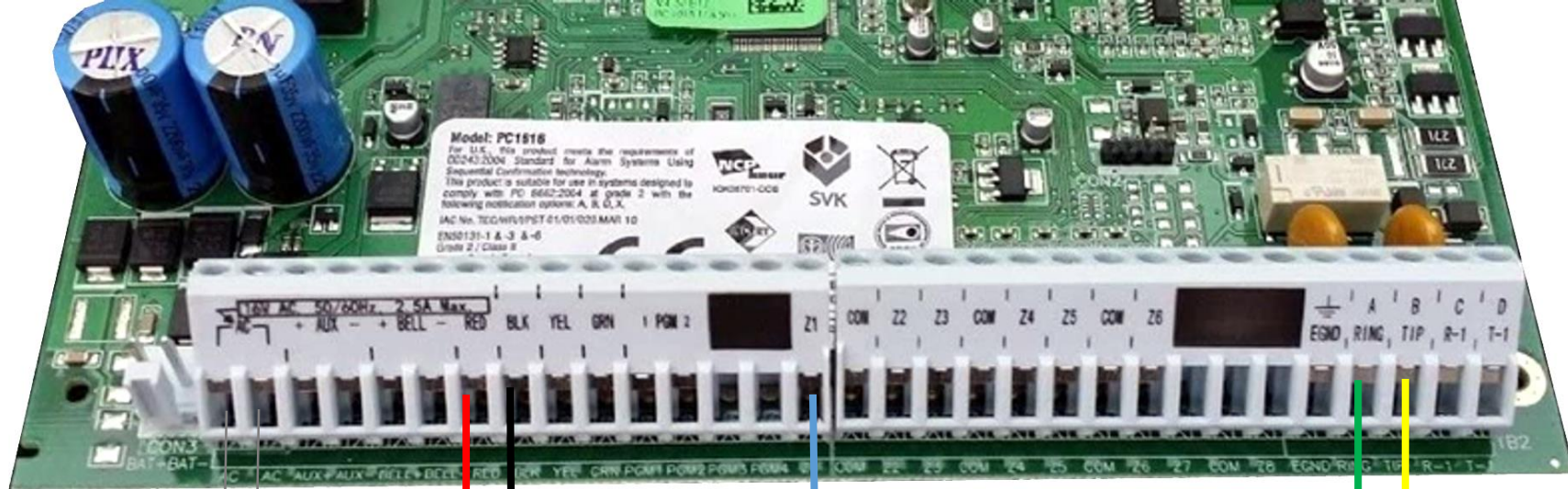
The screenshot displays the SERA2 [GTCOM2] software interface. The left sidebar shows a tree view with 'Outputs (PGM)' selected and highlighted with a red box. The main window displays a table titled 'Outputs' with the following data:

ID	Output Location in Hardware	Output Label	Out definition	No	Mode	Timer	Invert	Pulsating	ON Time	OFF Time	Count	Input
1	GTCOM2, IO1(1A)	OUT1	Activate by ARM/DISARM Command	1	Pulse	2s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A
2	GTCOM2, IO2(1A)	OUT2	Automation & Access Control	N/A	Steady	10s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A

Set GTCOM2 module

GTCOM2 and primary alarm panel synchronization

by Panel's EVENTS [Var1]



Topkoda

GTCOM2

GSM/PSTN Communicator

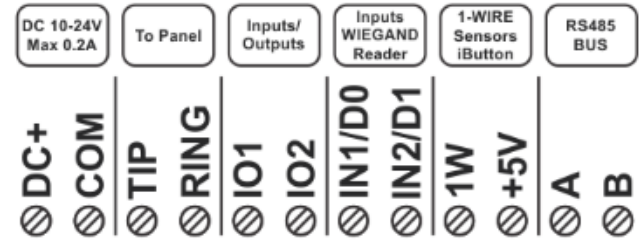
REG ☐

DATA ☐

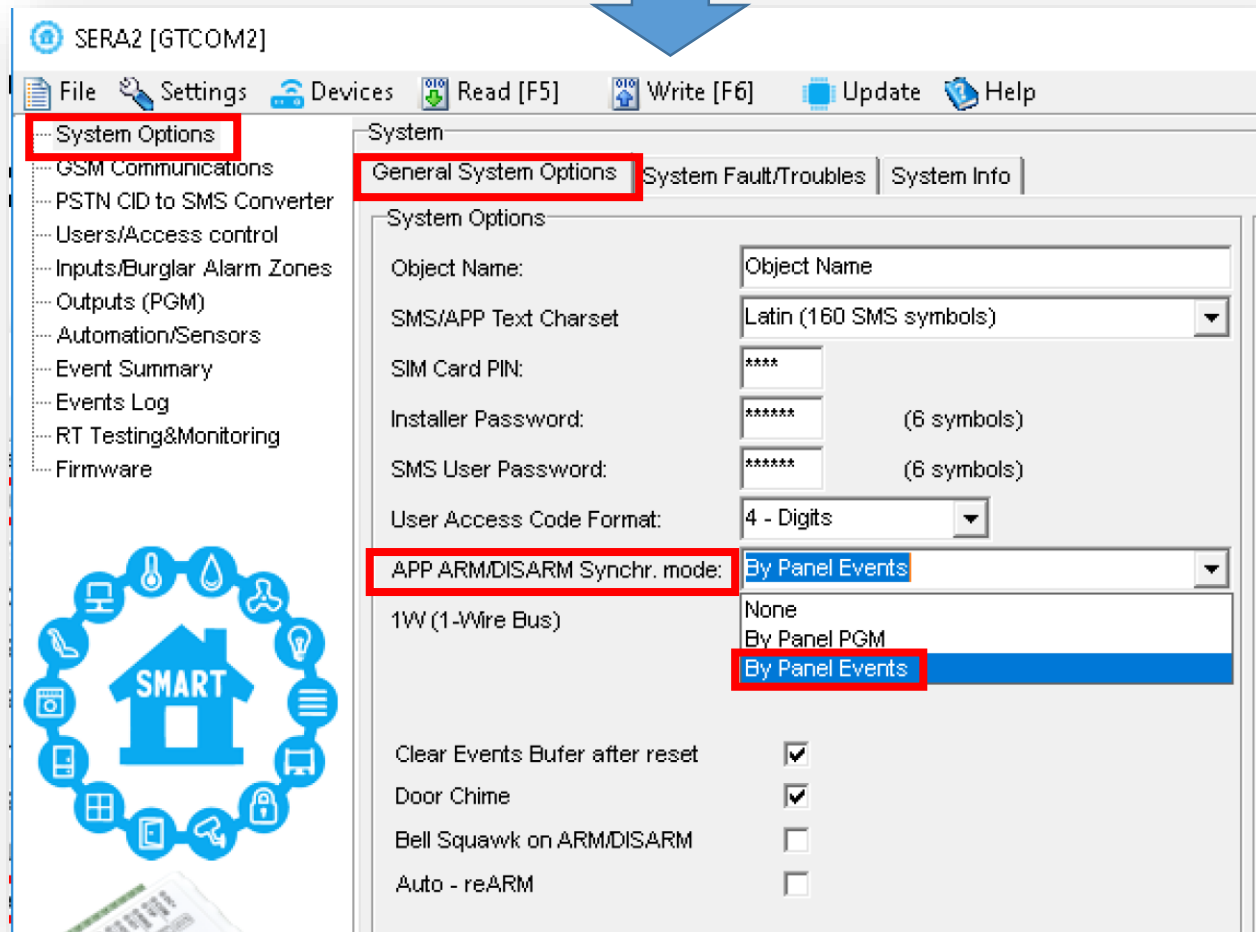
PWR ☐

LINE ☐

DTMF ☐

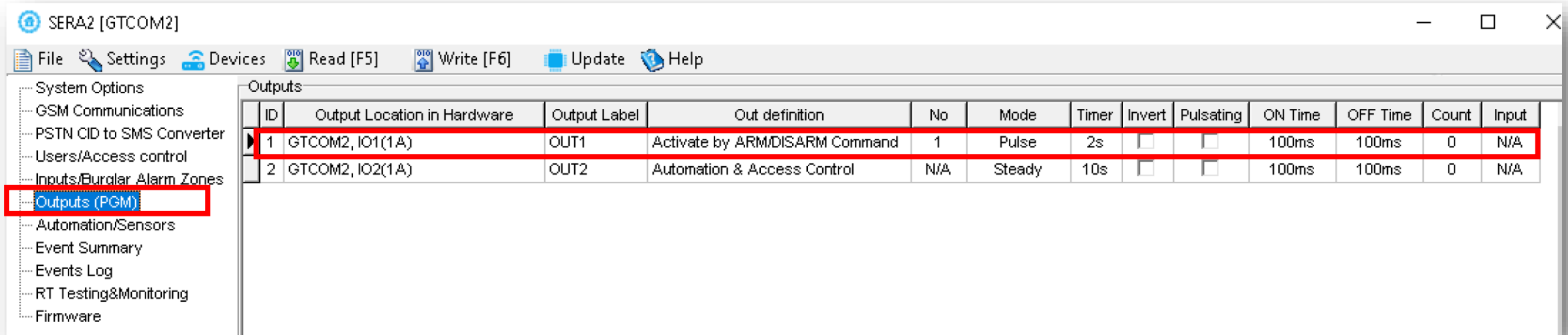


- Go to SERA2> System Options> General System Options
- Set App ARM/ DISARM Synchr mode to “By Panel Events”



Set module PGM action on ARM/DISARM command from APP/CALL/SMS/iButon

- Out Definition: [Activate by ARM/DISARM Command]
- No: [1] (this is partition number)
- Mode: [Pulse]
- Timer: [2s] (this is PGM pulse time on ARM/DISARM command)



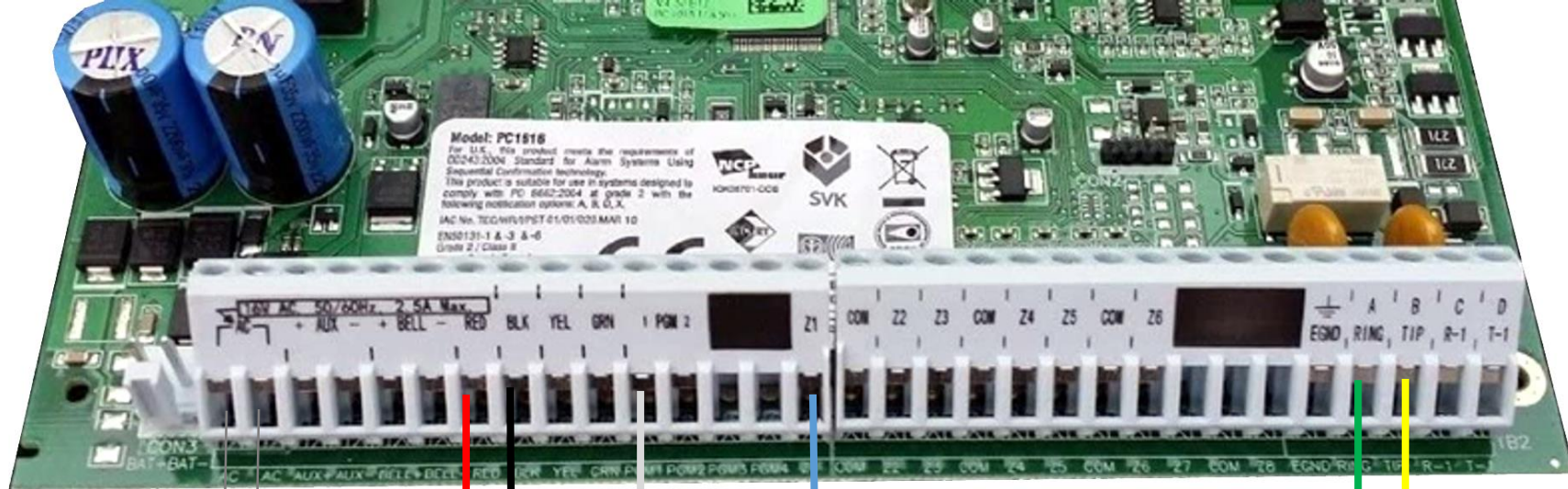
The screenshot displays the 'SERA2 [GTCOM2]' application window. The left sidebar contains a tree view with the following items: System Options, GSM Communications, PSTN CID to SMS Converter, Users/Access control, Inputs/Burglar Alarm Zones, **Outputs (PGM)** (highlighted with a red box), Automation/Sensors, Event Summary, Events Log, RT Testing&Monitoring, and Firmware. The main area shows a table titled 'Outputs' with the following data:

ID	Output Location in Hardware	Output Label	Out definition	No	Mode	Timer	Invert	Pulsating	ON Time	OFF Time	Count	Input
1	GTCOM2, IO1(1A)	OUT1	Activate by ARM/DISARM Command	1	Pulse	2s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A
2	GTCOM2, IO2(1A)	OUT2	Automation & Access Control	N/A	Steady	10s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A

Set GTCOM2 module

GTCOM2 and primary alarm panel synchronization

by Panel's EVENTS [Var2]



Transformer
~18-24V

AC 110-220V

Topkoda

GTCOM2

GSM/PSTN Communicator

REG ☐

DATA ☐

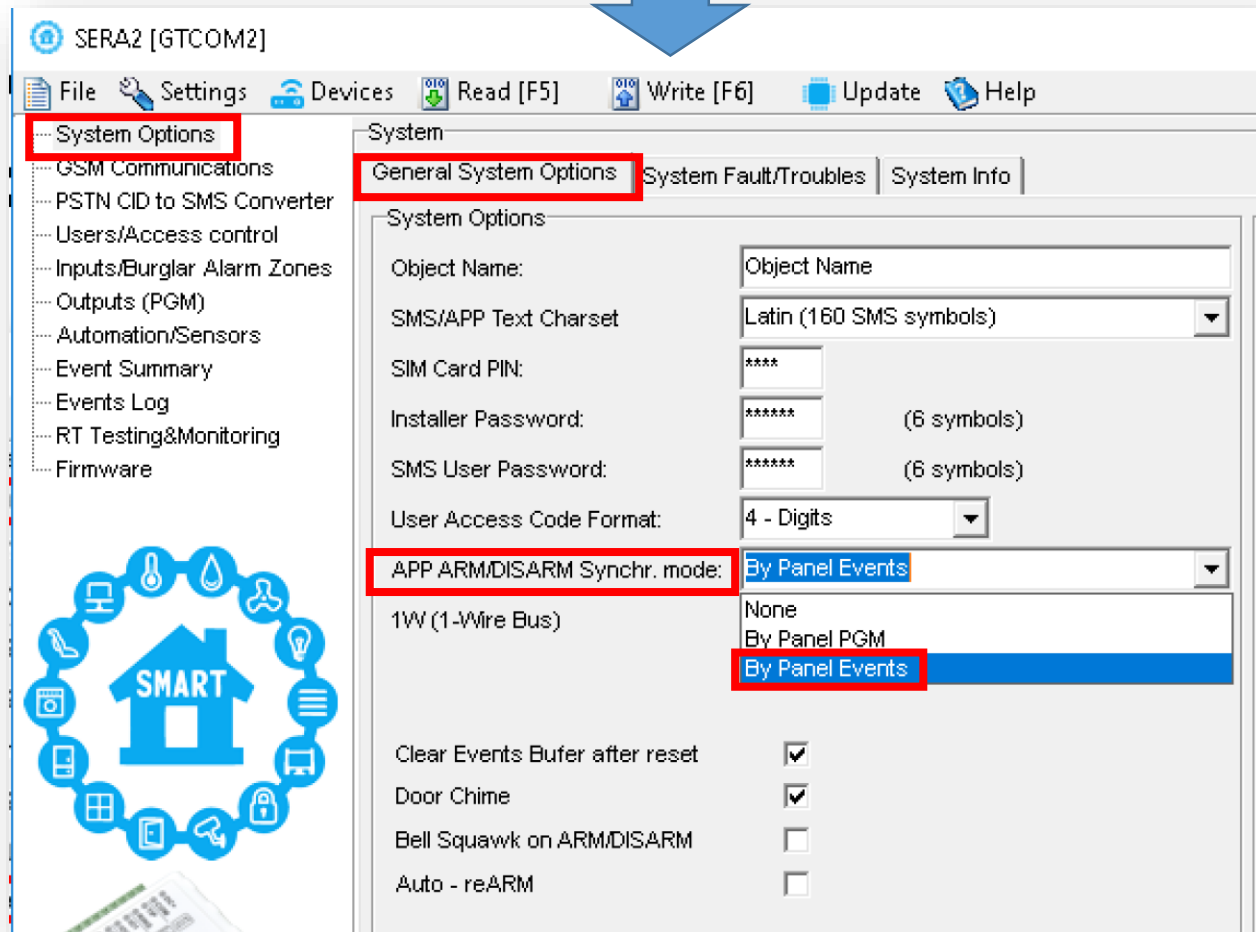
PWR ☐

LINE ☐

DTMF ☐

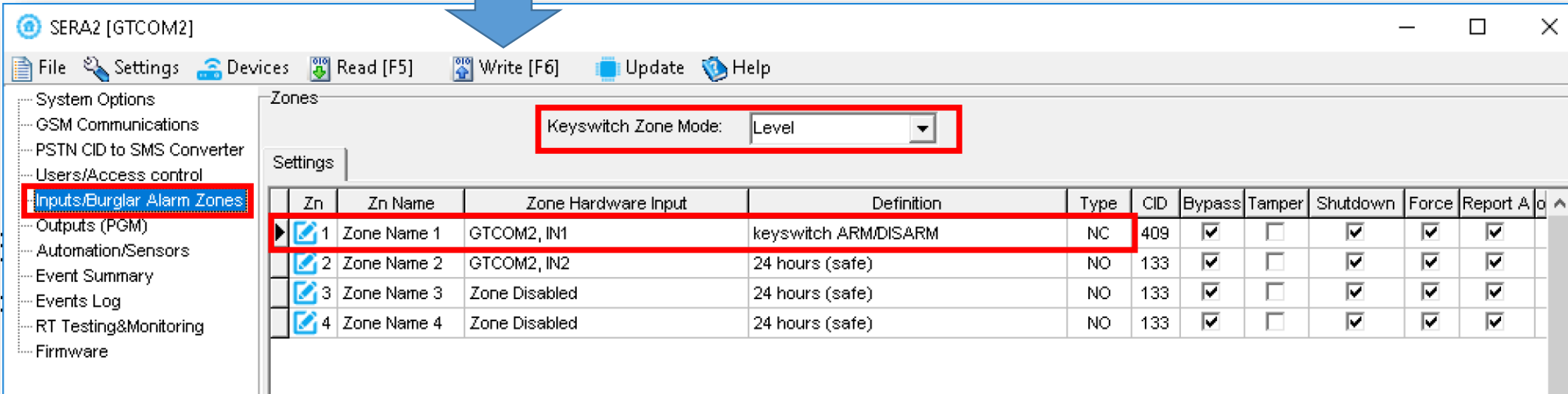
DC 10-24V Max 0.2A	To Panel	Inputs/ Outputs	Inputs WIEGAND Reader	1-WIRE Sensors iButton	RS485 BUS
DC+	COM	TIP	RING	IO1	IO2
				IN1/D0	IN2/D1
				1W	+5V
				A	B

- Go to SERA2> System Options> General System Options
- Set App ARM/ DISARM Synchr mode to “By Panel Events”



Set GTCOM2 keyswitch zone

- Go to SERA2> Inputs> Burglar Alarm Zones and set:
- Keyswitch Zone Mode : [Level] (Steady)
- Definition: [keyswitch ARM/DISARM]
- Type: [NC]
- Press “Write”

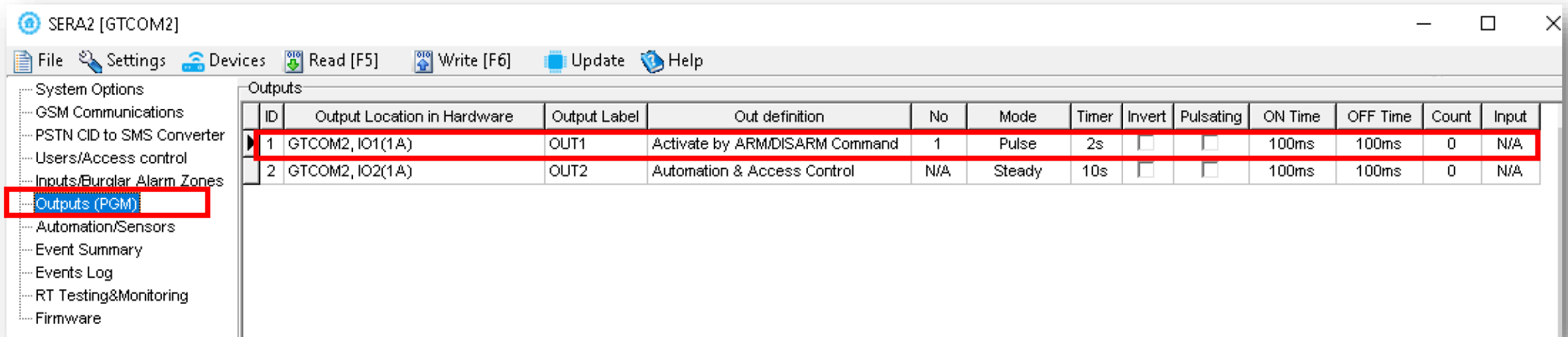


The screenshot shows the SERA2 [GTCOM2] software interface. A blue arrow points to the 'Inputs/Burglar Alarm Zones' menu item in the left sidebar, which is highlighted with a red box. The main window displays the 'Zones' settings. A red box highlights the 'Keyswitch Zone Mode' dropdown menu, which is set to 'Level'. Below this, a table lists the configured zones. The first zone, 'Zone Name 1', is highlighted with a red box and has its 'Definition' set to 'keyswitch ARM/DISARM' and 'Type' set to 'NC'.

Zn	Zn Name	Zone Hardware Input	Definition	Type	CID	Bypass	Tamper	Shutdown	Force	Report A	Report B
1	Zone Name 1	GTCOM2, IN1	keyswitch ARM/DISARM	NC	409	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Zone Name 2	GTCOM2, IN2	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Zone Name 3	Zone Disabled	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Zone Name 4	Zone Disabled	24 hours (safe)	NO	133	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Set module PGM action on ARM/DISARM command from APP/CALL/SMS/iButon

- Out Definition: [Activate by ARM/DISARM Command]
- No: [1] (this is partition number)
- Mode: [Pulse]
- Timer: [2s] (this is PGM pulse time on ARM/DISARM command)



The screenshot shows the SERA2 [GTCOM2] software interface. The left sidebar contains a tree view with the following items: System Options, GSM Communications, PSTN CID to SMS Converter, Users/Access control, Inputs/Burglar Alarm Zones, **Outputs (PGM)** (highlighted with a red box), Automation/Sensors, Event Summary, Events Log, RT Testing&Monitoring, and Firmware. The main window displays a table titled 'Outputs' with the following data:

ID	Output Location in Hardware	Output Label	Out definition	No	Mode	Timer	Invert	Pulsating	ON Time	OFF Time	Count	Input
1	GTCOM2, IO1(1A)	OUT1	Activate by ARM/DISARM Command	1	Pulse	2s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A
2	GTCOM2, IO2(1A)	OUT2	Automation & Access Control	N/A	Steady	10s	<input type="checkbox"/>	<input type="checkbox"/>	100ms	100ms	0	N/A

More information via email:

info@topkondas.it