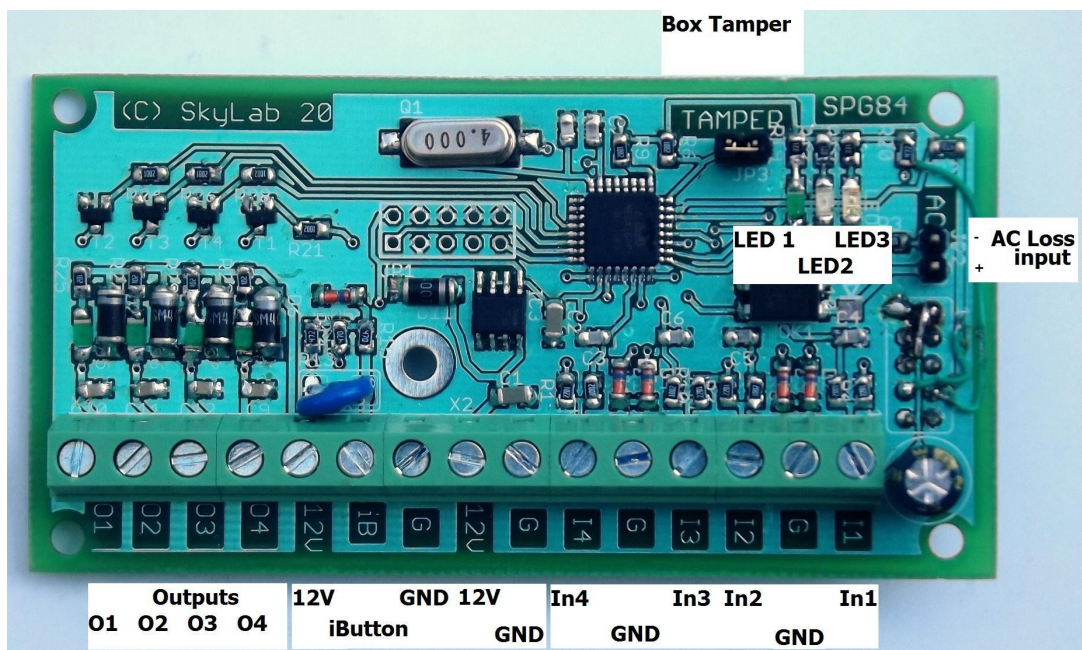


SPG 84

Multifunctional security controlpanel in and output module

Features:

- 4 User remote access by Web interface (with SPG 1000)
- 8 User Ibutton for arming disarming.
- 8 EOL input residential security alarm panel or technical transmission
- 4 Programmable, remote controllable outputprogramozható



General use:

The panel can be used independently with a downloadable programming software or it can be used as fully functional security panel with SPG 1000 multi path communication module. SPG 84 designed to any 8 zone security installation where simplicity required, arming and disarming is sufficient with Dallas iButton devices.

Hardware:

1.0. Main parts:

- 1 Fixing holes (4 of them)
- 2 Wired connectors
- 3 Control LEDs
Outputs O 1 –O 4

LED 1 Green – 1s flash Watchdog

0,5 s flas Watchdog communication with SPG 1000 is ready

LED 2 Yellow – Armed status

LED 3 Red – Alarm status or communication through the expander socket

- 4 Expander socket -10 pole at the solder side of the panel
- 5 iButton terminal

Fixing holes:

There are 5 pcs of them on the panel at the side of the panel. Dimensions: 84 x 40 mm.
All fixing holes are isolated, not connected to panel Ground.

Wire terminals:

GND Ground

12V +12 VDC in our output terminal

O1-O4 Open collector outputs

In1-In4 Dual end of line resistor inputs for Z1....Z8 (In1 = Z1,Z2, In2= Z3,Z4....)

GND Ground

iButton Data bus for iButton reader

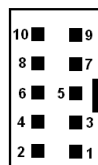
Tamper input Normally closed contact for enclosure or global tamper loop.

AC loss input Its a Voltage input ! Requires independent 3 VDC. Its designed to work with Sky Laboratories battery backup power supply. Functioning as supervision of AC LED indicator. GND and voltage is independent from the panel's own circuit-

WARNING ! The 12 VDC socket is to be used for both supply the SPG84 panel and to power external devices. If SPG84 is not connected to SPG 1000 than power supply must be connected to these terminals. If SPG 84 is connected to SPG 1000, than SPG 1000 will supply SPG 84 and its external devices. In this case these terminals could be used to power external devices. Maximal current consumption for external devices are 200mA ! Connecting SPG 1000 and SPG 84 is allowed only at POWER OFF situation !

Expander board socket:

- 1 GND
- 2 12V
- 7 TX TTL 3,3 V serial port
- 8 RX TTL 3,3 V serial port

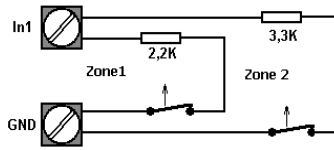


Attention !

All connection in this socket is mostly direct to processor. Any misuse or improper voltage will damage the SPG84. This sort of damage cause of improper use of the socket will void Warranty.

1.1. Input wiring:

Wiring of the End of Line Resistors.:

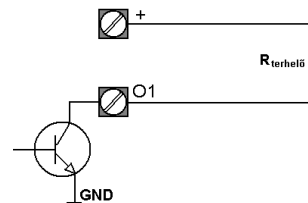


Input: INx	Zone nr	Resistor value
1	Input 1	2,2K
	Input 2	3,3K
2	Input 3	2,2K
	Input 4	3,3K
3	Input 5	2,2K
	Input 6	3,3K
4	Input 7	2,2K
	Input 8	3,3K

1.2. Output wiring:

Max current load of any output is limited at 100mA
Total load is 500mA.

Output wiring:



Outputs are with LED indicators showing current status.

Warning!

Overload outputs will void Warranty.



Power : 10-16 VDC
 Standby current: 50 mA
 Max. current (without outputs): 70 mA
 Dimensions LxWxH: 90x 46 20 x mm
 Terminal dimensions: Ø2,5 mm
 Output load: max. 100mA / 12VDC
 Input resistors: 2,2K and 3,3K +/-10%

Specification:

Input status (Only if SPG 1000 connected at SPG 1000 Status page):
 Showing current tatus.

PICTURE !

Output status & control (Only with SPG 1000-es):

PICTURE !

Controlling outputs will control the outputs only not the status of the control panel. So if one of the output is Bell output, than it will sound the siren even if there is no alarm event.

Remote Control:

EXTENSION BOARD

General

Remote Control	Disabled
Reply on SMS Command	Enabled
Zone Increment	0
Entry Delay [sec]	0
Exit Delay [sec]	0
Bell Time [sec]	0
AC Loss Delay [sec]	0

- Enable: Remote Arming is allowed
 - Disable: Remote Arming is disabled
- Factory Default: Disabled

• **Reply on SMS command:**

- Enable: It will enable SPG84 to send reply SMS to command SMS received before.
- Disable: SPG will not send any reply SMS

Factory Default: Disabled

• **Zone Increment:**

The value in this field will be added to the modules own zone numbers.

Example: If you already have a 16 zone control panel than set this to 16. By doing so the 1st input of the zone will be numbered and reported as 17th.gyeletre.

Factory Default: 0

• **Entry delay time:**

Valid values: 0-255 sec

Factory Default: 0 sec

• **Exit delay time:**

Valid values: 0-255 sec

Factory Default: 0 sec

• **Bell time:**

Valid values: 0-255 sec

Factory Default: 0 sec

• **AC Loss Delay time:**

The time SPG 84 will count until send AC loss report from actual AC loss.

Valid values: 0-65000 sec

Factory Default: 0 sec

Inputs

The panel has 4 input , 8 zones with dual end of line resistors. Each zone type could be configured here.

Inputs

#	Type	report disable	e-mail report	SMS report	name
Z1	Delayed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keslel
Z2	Normal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Normal
Z3	Technical	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Muszaki
Z4	24h alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	24
Z5	Follower	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Koveto
Z6	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Z7	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Z8	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ZT	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ZA	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

• **Zone :**

The number of inputs. Z1...Z8

ZT is the enclosure tamper pinout. ZA is the AC loss pinout. (Attention ! Its an independent 3V DC input !)

Shortcircuit the input (not the zone) will trigger alarm event from both zones.

• **Zone Types:**

- **Disabled:**

If disabled is selected, no need to install EOL resistors.

- **Normal:**

Immediate zone meaning if the system is Armed, violate this zone type will activate an alarm immediately.

- **24Hour:**

24 hour zone will activate an alarm , regardless if the system is armed or

disarmed.

- **Delayed:**

The system will not alarm during exit and entry delay times if delayed zones are violated for the duration of entry or exit time. All other violation will result alarm.

– **Technical:**

Similar operation of 24 hour zone, but it will not trigger a Fire or Alarm message. Its to be used if any sort of contact information is to be transmitted regardless if armed or disarmed status. EG, temperature sensor, pump or other device activation e.t.c.

– **Follower:**

A „Follower” zone will act as an „Normal” zone if it has been triggered by itself. If a handover zone has triggered after a „Delay” zone, the remaining delay time will handover from the delay zone to the handover zone.

– **Stay:**

Same as Normal type zone, but in Stay arming it will be bypassed automatically in Stay mode arming. If during exit time the Delayed zone is violated than this zone will be handled as Normal zone type. If Delayed zone is not violated during exit time that this zone will be shunted when exit time cycle is expired.

– **24h Fire:**

Similar operation of 24 hour zone, but it will trigger a Fire Alarm message.

- **24h Fire trouble:** Similar operation of 24 hour zone, but it will trigger a Fire Alarm Trouble message.
Factory default: all disabled

• **Report disabled:**

Sending message to central monitoring station

– disabled:

– enabled:

Factory setting: all enabled

• **E-mai Report:**

Sending E-mail message from that particular zone.

– disabled:

– enabled:

Factory setting: all disabled

• **SMS Report:**

Sending SMS message from that particular zone

– disabled:

– enabled:

Factory setting: all disabled

• **Name:**

You may type here any text in English standard characters, it will be transmitted in E-mail and SMS.

Factory setting: all empty

• **ZT :**

This is the enclosure or global tamper circuit pin. No other zonetype can be programmed to this zone input.

• **ZA:**

This is the panel AC loss detection tamper pin. No other zonetype can be programmed to this zone input.

Dallas keys

#	Type	Dallas ID (hex)	name
#1	Disabled		
#2	Disabled		
#3	Disarm		
#4	Disabled		
#5	Disabled		
#6	Disabled		
#7	Disabled		
#8	Disabled		DALLAS#8

Dallas Ibutton arming / disarming registration

The SPG 84 can handle up to 8 different dallas ibuttons (type 1990) Each iButton authority level could be set.

Dallas ID

This is the hex code of the dallas iButton arming device you may read on the button.

Name

You can enter any name here. This field will be transmitted in SMS and Emails if programmed.

If an unregistered iButton is used, the panel will send an access denied report to the central station via the SPG 1000.

Outputs:

Outputs

#	Name	Type	Bistable/Mono	Timer	Zone number
out1	Késleltetés	Entry/Exit	Bistable	0	In1
out2	Élesítve	Disabled Armed	Bistable	0	In1
out3	Riasztás	Disarmed Alarm	Bistable	0	In1
out4		24H Alarm Technical Tamper	Bistable	0	In1

#	Type	Dal	name
#1	Arm-Disarm	00	test
#2	Arm-Disarm	00	test2
#3	Disabled		

- **Output:**

There are 4 outputs freely programmable by functions.

- **Name:**

You may enter any description to this zone.

Factory default: Empty

- **Type:**

Output types could be selected here,

- **Disabled:**

This output is disabled. It can not be activated from anywhere.

- **Armed:**

Will follow the Armed status of the SPG 84

- **Disarmed:**

Will follow the Disarmed status of the SPG 84

- **Alarm:**

Will follow the Alarm status of the SPG 84

- **24h Alarm**

Will follow any 24h Alarm zone status.

- **Technical**

Will follow any Technical zone status

- **Tamper :**

Will follow any Tamper status of the SPG84

- **Entry/Exit:**

Will follow the exit entry time status of the SPG .

- **Communication Fail:**

Will be activated if there is a communication failure between the SPG 1000 and the SPG 84

- **Zone Follower:**

Will follow status of any zone selected

- **Server control:**

If SPG 84 receives a SMS command either from SMS or directly form SPG 1000 programming web.

- **AC Loss:**

Will be activated if AC loss input is activated.

- **AC LOSS TIME OUT:**

Will be activated if AC LOSS timeout is expired, and still no AC power.

- **LOW Battery:**

This information is from SPG 1000 only. If DC power drops under DC 11,8 V it will be activated.

Factory Default : All disabled

- **Mode:**

Setting the timing of the output

- **Monostable:**

Will follow the event with the timing as event occurs.

- **Bistable:**

Two state output. The output will be activated by the event, and will stay in that as timing is set.

Factory default: Monostable

- **Timer:**

Timer for Bistabil output mode.

Valid entry: 1-65535sec

Factory default: all 0

- **Zone num.:**

Only for „Zone follower” output types. It will follow the input zone selected.

Factory default: „Zone 1”

SMS remote controlling programming (Only with SPG 1000):

SPG 1000 and SPG 84 alltogether is could be used for SMS commanding and remote control.

If you would like to use these function you need to enable at „Configure” page „SMS Reply mode”

Warning:

Only standard English characters could be used.

SMS control:

If the phone nr of the sender of the SMS message to the SPG 84 is registered at USERS you may control SPG 84 with the following commands :

- **SMS format:**

OX=Y

Where “O” = output , “X” Number of the output 1...4, “Y” is the required status of the output 0= Out 1=In

Example: O1=1 Turning on Output nr 1

ARM

SPG 84 will be armed by this command module will reply with “ARMED !” answer

DISARM

SPG 84 will be disarmed by this command module will reply with a “DISARMED” answer

ALARM

Will trigger an immediate alarm module will reply with a “ ALARM ACTIVATED” answer

STAT

Requesting status of SPG 84,

Answer is :

[Z1...Z8] [BOX Tamper] [ACLOSS] [O1=x O2=x O3=x O4=x] [ARMED] [DISARMED] [STAY][ALARM]

Warning:

If SMS messages is stored in your phone and the phone is lost you will risk to let someone to remote control your system.

Application guide for wiring and programming for Dallas iButton reader indicators

Setting the outputs the following way iButton reader will indicate status of the SPG 84 expander module:

System Ready : Green
 System Armed: Red
 Exit/Entry time: Orange

Outputs

#	Name	Type	Bistable/Mono	Timer	Zone number
out1	Ready	Disarmed	Bistable	65535	Z1
out2	System Armed	Armed	Bistable	65535	Z1
out3	E/E Delay	Entry/Exit	Bistable	65535	Z1
out4	System Alarm	Alarm	Monostable	300	Z1



iButton wires : Out 1 - Connected to Out 3
 Out 2 - iButton Brown
 Out 3 - iButton Green
 12V - iButton Yellow
 iB - iButton White
 GND - iButton Gray