



••••• ScolmoreGROUP



MAGPRO96GBB

Back-up power supply unit for
MAGPRO96G addressable fire alarm panel



1293

DoP No: 136

Tested by EVPU

Distributor: Elite Security Products Ltd,
Unit 7 Target Park, Shawbank Road
Lakeside, Redditch B98 8YN, UK
<http://www.espuk.com>

Manufacturer: Teletek Electronics JSC
14A Srebarna Str, 1407 Sofia, Bulgaria

EN 54-4:1997
EN 54-4:1997/AC:1999
EN 54-4:1997/A1:2001
EN 54-4:1997/A2:2006

IMPORTANT NOTES

ATTENTION: Read carefully this installation Instructions before installing the device! This manual is subject to change without notice!

- Warning! An appropriate disconnect device shall be provided as part of the building.
- Switch OFF the main power supply and the battery of the MAGPRO96G panel before installing the MAGPRO96GGBB power supply unit!
- Use only the connection cables supplied with the equipment: red and black wires for connection to JP4 terminals; white and grey wires for connection to FLT terminals! Do not shorten or extending these cables!
- Make all the wirings observing the polarity of the connections following the presented connection diagrams. If after powering on the MAGPRO96GGBB, the LED "WRONG CONNECTION" is lighting on, switch off the power supply immediately and check the connection between the power supply unit of MAGPRO96G panel and terminals JP4 of MAGPRO96GGBB!
- If the LED "Hi Resist" for Battery 1 or 2 is blinking it is strongly recommended to change the batteries immediately!
- The cover is mounted to the box bottom with hinges fixed with dismountable rivets. The angle of opening of the front cover must not be greater than 110°!

TECHNICAL SPECIFICATIONS

Main power supply 230V~ +10%/ -15%, 0.6A, 4A fuse
 Frequency 50-60Hz
 DC Output:
 - Voltage 9.9-14.2V==
 - Max. Current 7A@1 battery, 14A@2 batteries
 Int. resistance of the battery Ri < 0.3Ohm
 Max. battery capacity 2x12V/18Ah
 Charger outputs 13.65V== ±1%@20°C, max. 2A
 Color of the box grey
 Dimensions 430x330x117mm
 Max. dimensions of 1 battery 167x181x76mm

INSTALLATION INSTRUCTIONS

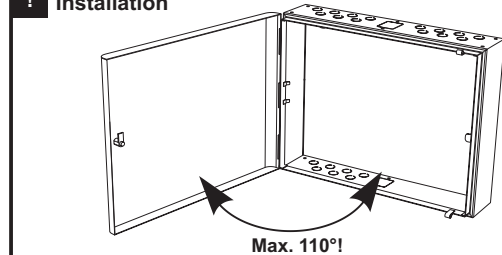
General Description

MAGPRO96GGBB is a power supply unit designed for back-up power supply of MAGPRO96G addressable fire alarm panel. The power supply is placed into a metal box suitable for building of a modular structure with the addressable panel and a second power supply unit. The access to the main board and the cable connections is secured with a key.

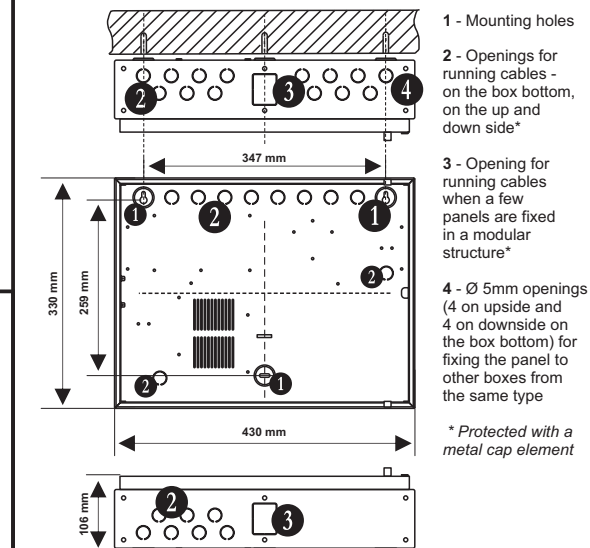
The status of MAGPRO96GGBB is displayed via a LED indication on the main PCB. The status of the power supply unit can be continuously monitored with enabling the option "External PSU Check" from the MAGPRO96G panel menus. When the option is enabled the panel will display a fault message "External Power Supply Fault, Periphery Device 1-PSU" in case of any trouble with the power supply. The respective trouble of the power supply is visualized with a blinking LED on the PCB.

At normal operation mode only "OK" green LED is blinking and all other LEDs are off. In case of main power supply (230V~) loss the "FLT" yellow LED starts blinking and "OK" green LED is off. In case of trouble with a Battery 1 and/or 2, the yellow LEDs at sections Batt1 and/or Batt2 are blinking. A detail description of all LED indicators is performed at Item 2: MAGPRO96GGBB Main Board - see on page 2.

Installation



Mounting



1 - Mounting holes

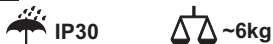
2 - Openings for running cables - on the box bottom, on the up and down side*

3 - Opening for running cables when a few panels are fixed in a modular structure*

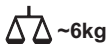
4 - Ø 5mm openings (4 on upside and 4 on downside on the box bottom) for fixing the panel to other boxes from the same type

* Protected with a metal cap element

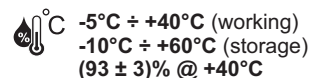
Installation



IP30



~6kg



-5°C ÷ +40°C (working)

-10°C ÷ +60°C (storage)

(93 ± 3)% @ +40°C



0.5mm²-2.5mm²



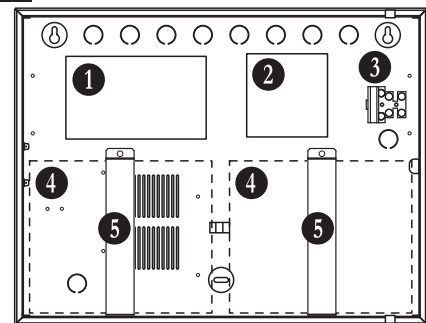
Indoor use



Outdoor use

18021042; RevB; 01/2022

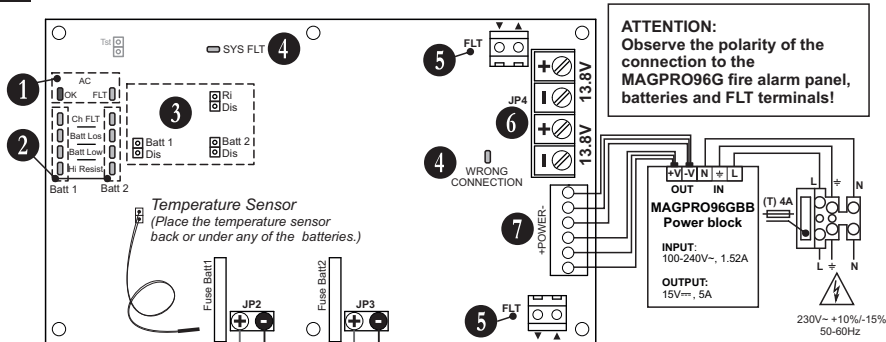
1 Elements



- 1 - Main board
- 2 - Power supply unit
- 3 - Main power supply (terminal 230V~)
- 4 - Place for a battery
- 5 - Battery bracket*

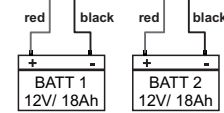
* Note: The batteries must be firmly tighten with the brackets to the box bottom!

2 MAGPRO96GBB Main Board



Temperature Sensor
(Place the temperature sensor back or under any of the batteries.)

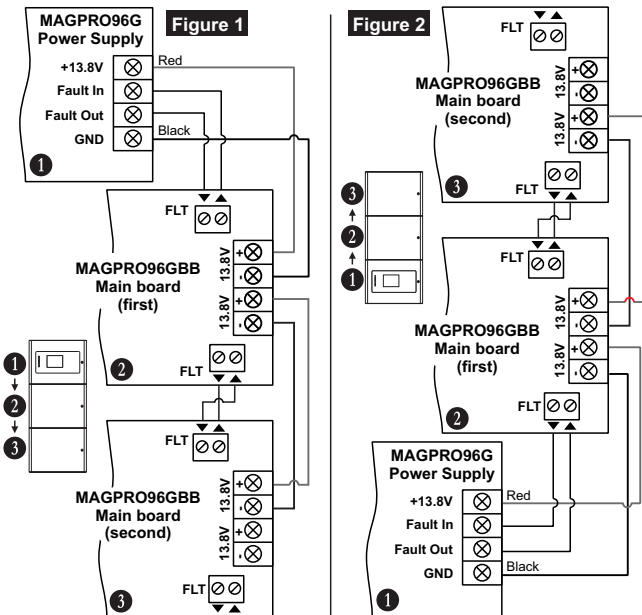
ATTENTION:
Observe the polarity of the connection to the
MAGPRO96G fire alarm panel,
batteries and FLT terminals!



IMPORTANT! If after powering up both the MAGPRO96G panel and MAGPRO96GBB backup power supply, the LED "WRONG CONNECTION" is lighting on you must **TURN OFF** the power supply of both devices immediately and check the polarity of the connection!

3 Connection Diagrams

NOTE: At FLT terminals, the arrows pointing inward the MAGPRO96GBB main board are marking the terminals for input signals to the board, and the arrows pointing outward are marking the terminals for output signals from the board.



1 - AC Indication for main power supply presence (230V~):

- "OK" LED (green) - Blinks at presence of main power supply.
- "FLT" LED (yellow) - Blinks at loss of main power supply.

2 - Battery Fault Indication. The indication is separated into two sections - Batt1 (Battery 1 connected to JP2 leads) and Batt2 (Battery 2 connected to JP3 leads). The respective indicator starts blinking in case of following troubles:

- "Ch FLT" LED (yellow) - battery charging fault.
- "Batt Los" LED (yellow) - missing or deeply discharged battery (voltage lower than 10V ±10%).
- "Batt Low" LED (yellow) - discharged battery (voltage range 10V-11V ±10%).
- "Hi Resist" LED (yellow) - high battery resistance detected. **Attention: The high battery resistance indication must be enabled - no jumper set on "Ri Dis" terminal.**

3 - Jumpers for disabling the operation:

- "Ri Dis" - Set a jumper to disable the indication for high battery resistance.
- Attention: The disabling of High Battery Resistance indication is not in conformity with EN54 standard!**
- "Batt 1 Dis" - Set a jumper to disable the operation of the battery connected to JP2 terminal.
- "Batt 2 Dis" - Set a jumper to disable the operation of the battery connected to JP3 terminal.

4 - System Fault Indication.

- "SYS FLT" LED (yellow) - lights on permanently in case of processor failure.
- "Wrong Connection" LED (yellow) - lights on permanently in case of reversed polarity of the connection between the MAGPRO96G fire alarm panel power supply and JP4 terminal.

5 - FLT Terminals. Use the white and the grey wires from the spare parts kit to connect the FAULT IN and FAULT OUT terminals of MAGPRO96G power supply to FLT terminal of MAGPRO96GBB as observing the polarity. The FAULT OUT output will turn on when a problem with main power supply of the MAGPRO96G panel occurs. Connect the second FLT terminal of the first MAGPRO96GBB to the FLT terminal of the second MAGPRO96GBB as observing the polarity, and so on. **Attention: The FLT terminals are short-circuited, so the wiring depends on the direction of the connection and the position of the MAGPRO96G panel in the modular structure - see the connection diagrams.**

6 - JP4 Terminal. Power supply terminals to MAGPRO96G fire alarm panel. Use the red and the black wires from the spare parts kit to perform the connection as strictly observing the polarity - see the connection diagram.

7 - POWER Terminal factory connected to the main power unit of MAGPRO96GBB.

Note: The "Tst" terminal is not used.