

# **IRIS PS72**

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

> 1293 DoP No: 059

Tested by EVPU

#### Teletek Electronics JSC

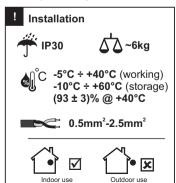
Address: 2 Ilivansko shose Str. 1220 Sofia, Bulgaria

EN 54-4:1997 EN 54-4:1997/AC:1999

EN 54-4:1997/A1:2001 FN 54-4:1997/A2:2006

#### ATTENTION:

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



18020959: RevB: 04/2024

#### IMPORTANT NOTES

- Warning! An appropriate disconnect device shall be provided as part of the building.
- Switch OFF the main power supply and the battery of the IRIS panel before installing the IRIS PS72 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 wiring observing the polarity of the connections following the presented connection diagrams. If after powering on the IRIS PS72, the LED "WRONG CONNECTION" is lighting on, switch off the power supply immediately and check the connection between the power supply unit of IRIS panel and terminals JP4 of IRIS PS72!
- 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

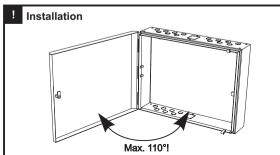
DC Output:

- Voltage . . . . . . . . . . . . . . . 9.9-14.2V===

Int. resistance of the battery Ri . < 0.30hm Max. battery capacity . . . . . . . 2x12V/18Ah

Color of the box . . . . . . . . grey

Max. dimensions of 1 battery... 167x181x76mm



#### INSTALL ATION INSTRUCTIONS

### **General Description**

Mounting

330 259 0000

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 $\circ \circ$ 

00000

430 mm

IRIS PS72 is a power supply unit designed for back-up power supply of IRIS 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 IRIS PS72 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 IRIS 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.

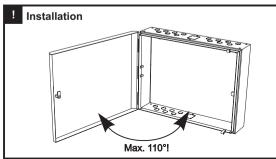
At normal operation mode only "OK" green LED is blinking and all other LEDs are off. In case of main power supply (230V~) loss the "FLT" yellow LED starts blinking and "OK" green LED is off. In case of trouble with a Battery 1 and/or 2, the yellow LEDs at sections Batt1 and/or Batt2 are blinking. A detail description of all LED indicators is performed at Item 2: IRIS PS72 Main Board - see on page 2.

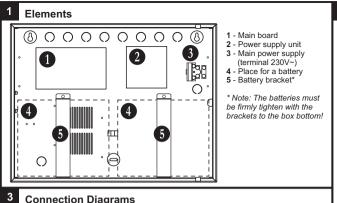
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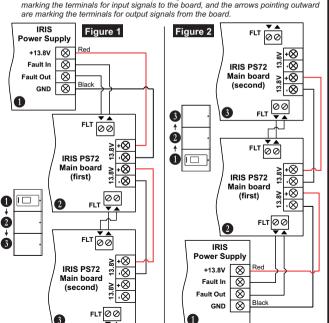


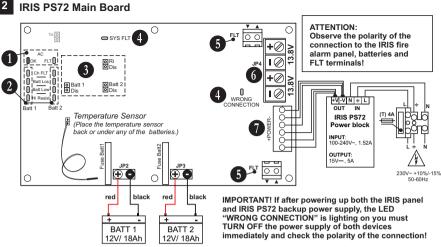
- 2 Openings for running cables on the box bottom. on the up and down side\*
- 3 Opening for running cables when a few panels are fixed in a modular structure\*
- 4 Ø 5mm openings (4 on upside and 4 on downside on the box bottom) for fixing the panel to other boxes from the same type
- \* Protected with a metal cap element





NOTE: At FLT terminals, the arrows pointing inward the IRIS PS72 main board are





- 1 AC Indication for main power supply presence (230V~): • "OK" LED (green) - Blinks at presence of main power supply.
- "FLT" LED (vellow) 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 (vellow) - battery charging fault.
- "Batt Los" LED (yellow) missing or deeply discharged battery (voltage lower than 10V ±10%).
- "Batt Low" LED (vellow) 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 (vellow) 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
  - IRIS 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

7 - POWER Terminal factory connected to the main power unit of IRIS PS72.

IRIS PS72 to the FLT terminal of the second IRIS PS72 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 IRIS panel in the modular structure - see the connection diagrams.

OUT terminals of IRIS power supply to FLT terminal of IRIS PS72 as observing the polarity. The FAULT OUT output

will turn on when a problem with main power supply of the IRIS panel occurs. Connect the second FLT terminal of the first

6 - JP4 Terminal. Power supply terminals to IRIS 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.

Note: The "Tst" terminal is not used