

# SWITCHPAC

## Switch Mode Power Supplies

ZSP135-DR- series for fire protection signaling and automation



According to EN-54-4/A2 and EN 12101-10

**OLTRONIX**

Industrial Power Supplies b.v.

# ZSP135-DR

## Power supply for fire protection signaling and automation compliant with EN 54-4:2001 / A2:2007



### General

The power supply ZSP135-DR is dedicated to work in systems of fire protection signaling and automation. It is a source of guaranteed 24V voltage.

It is manufactured as a wall box with a lock. It has a space inside to mount two batteries.

The controller protects the internal battery bank against too low discharge by means of the built-in disconnect device.

The power supply measures resistance of the battery circuit

### Functions of the device

- ▶ Uninterruptible 24V power supply
- ▶ Floating mode with temperature compensation
- ▶ Equalize charging of the battery with the charging current limitation
- ▶ Detection of low and high voltage of the battery
- ▶ Monitoring of resistance (thus also continuity) of the battery
- ▶ Protection of the battery against to high discharge
- ▶ Monitoring of output fuses
- ▶ Continuous testing of the rectifier's operation
- ▶ Monitoring of the internal temperature
- ▶ Visual and remote indication of alarm states

### Application

The unit is dedicated to power elements of;

- ▶ Fire detection and fire alarm systems according to EN 54-4:2001/A2:2007
- ▶ Smoke and heat control systems according to EN 12101-10:2007
- ▶ Other fire protection systems

### Characteristic features

- ▶ Simultaneous compliance with both EN54-4 and EN 12101-10-one model of the power supply serves different fire protection systems
- ▶ Internal battery pack (factory preset to cooperate with VRLA batteries)
- ▶ Microprocessor controller
- ▶ Full control of the charging process and the charge level of the battery
- ▶ Monitoring of resistance of the battery circuit (as prescribed by amendment 2 to EN 54-4)
- ▶ Low power consumption for internal needs
- ▶ High ingress protection Ip43

### Outfit

- ▶ Wall box with a lock
- ▶ Two LED's for visual indication
- ▶ Overload protection of output and battery circuits
- ▶ Built-in electronic low voltage disconnect device
- ▶ Remote indication: general failure and mains failure (NC, NO dry contacts for each alarm)
- ▶ Screw terminals for both outputs and the battery pack
- ▶ Input of an external alarm
- ▶ Internal temperature probe

### Optional outfit

- ▶ Tester of ZSP135 power supplies

# ZSP135-DR

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### Main parameters of the power supply

Input voltage:	184...230...253V
Output voltage:	20...28V
Floating mode voltage 25C:	26,8V
Efficiency:	min 77..80%
Cooling:	convection
Working temperature range:	-25..+55C
Ingres protection:	Ip43
Consumption of current for internal needs	max 35mA
Max resistance of the battery circuit	250mΩ
Max battery charging current	2A
Electric safety:	EN 60950:2004 class I
Electromagnetic interferences:	EN 55022:2000 level B
EMC immunity:	EN-54-4:2001 / A2:2007

Type	Max output current I <sub>max b</sub> *)	Nom. Output current I <sub>max a</sub>	Max battery capacity	Weight with batteries	Dimensions WxHxD [mm]
ZSP135-DR-2A-1	2A	1A	18Ah*)	18,0 kg	390x350x90
ZSP135-DR-3A-1	3A	2A	18Ah*)	18,0 kg	390x350x90
ZSP135-DR-3A-2	3A	1,5A	28Ah	28,0 kg	390x350x140
ZSP135-DR-5A-1	5A	4A	18Ah*)	18,0 kg	390x350x90
ZSP135-DR-5A-2	5A	3,5A	28Ah	28,0 kg	390x350x140
ZSP135-DR-5A-3	5A	3A	40Ah	42,0 kg	450x350x180
ZSP135-DR-7A-1	7A	6A	18Ah*)	18,0 kg	390x350x90
ZSP135-DR-7A-2	7A	5,5A	28Ah	28,0 kg	390x350x140
ZSP135-DR-7A-3	7A	5A	40Ah	42,0kg	450x350x180

\*) the battery of capacity 18Ah could be substituted by a battery of 17Ah.

Batteries for power supplies ZSP135-DR should be ordered separately

#### Example of an order:

Power supply for fire protection signaling and automation ZSP135-DR-5A-1  
Battery 12V/17Ah 2pcs.



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