



## Low-Voltage Power Supply Module

**6 units DIN rail**

### Functional characteristics

The FD-PA01 is a power supply module with back-up battery, It has the following characteristics:

- ◆ Designed for mounting on DIN rail
- ◆ Able to supply 12V 1.3A
- ◆ Able to supply field devices for more than 4 hours when linked to a lead battery with 12V 7.5Ah capacity
- ◆ Battery disconnection at 10V for over-discharge protection
- ◆ Output can be connected in parallel with other power supplies
- ◆ Able to monitor all electrical parameters, including battery efficiency tests, through a special connection to the FD-DA01 module
- ◆ Visual On/Off indicator for main power supply
- ◆ Fault and/or overload indicator
- ◆ Connection to FD-BUS through an RJ45 connection

Double connector (internally in parallel) for easy reconnection to the FD-BUS.

### Protection

The equipment is protected against the following events:

- ◆ polarity reversal on the cables (RJ45) connecting to the FD-BUS
- ◆ voltage surge in the incoming power supply
- ◆ temporary short-circuit on the output

### Modes of Operation

The FD-PA01 module supplies the power for the Orangelink system.

- ◆ In limited monitoring mode (for access control and attendance registration), power is supplied directly to the Orangelink devices through the FD-BUS outputs and/or through the output terminal.
- ◆ In the extended monitoring mode (for intrusion protection, access control and attendance registration) power is supplied through the output terminal only, and one of the FD-BUS connectors is used to supply the remote monitoring signals to an FD-DA01 module.

### Visual indicators

The FD-PA01 module can give the user indications by means of:

- ◆ a red LED
- ◆ a green LED

The most common indications are as follows:

- ◆ Green LED, lit steadily when main power is On
- ◆ Green LED, flashing when main power is Off
- ◆ Red LED, flashing in the event of an overload (overvoltage or overcurrent)
- ◆ Red LED, lit steadily in the event of a fault (no voltage at output) or if power is about to go off.

All indicator signals are generated locally.

Parameter	Description
<b>Dimensions</b>	105x85x55mm (6 DIN units)
<b>Weight</b>	250g
<b>Input voltage</b>	18V <sub>CA</sub> to 25V <sub>CA</sub> (with AC power supply) 24V <sub>DC</sub> to 35V <sub>DC</sub> (with DC power supply)
<b>Power consumption (for I<sub>out</sub>=1.5A)</b>	1.5A (battery charged) to 3A (battery discharged) at 24V <sub>CA</sub> 2.0A (battery charged) to 3A (battery discharged) at 18V <sub>CA</sub>
<b>Output voltage</b>	13V <sub>DC</sub> to 14V <sub>DC</sub> (main power supply) 10V <sub>DC</sub> to 13V <sub>DC</sub> (battery supply)
<b>Output current</b>	Up to 1.3A (overload alarm at 1.5A)
<b>Operating temperature</b>	0 ↔ 40°C (ventilation by natural convection)
<b>Relative humidity</b>	Up to 95% without condensation
<b>Mounting</b>	Horizontally on DIN rail with no obstructions at the ventilation slots
<b>Connections</b>	Indirect terminal blocks for cables up to AWG12 <ul style="list-style-type: none"> <li>• DC/AC power input</li> <li>• Battery</li> <li>• Power output</li> <li>• Connections for RJ45 cables</li> <li>• Connectors for FD-BUS (2 RJ45s in parallel)</li> </ul>
<b>Fuses</b>	Input fuse: 3.15A 250V T (5x20) Battery fuse: 3.15A 250V T (5x20)