



EMEX

MX Power Box power supply unit

Product code 810000 · Emergency lighting > Power supplies

Power supply unit for MX series exit signs and emergency luminaires. MX Power Box supplies the 24 V operating voltage to up to four COM loops, so the luminaires do not load the fire alarm control panel.

- Operating voltage for luminaires on up to four COM loops
- Fuses for each loop (TR5 3.15 A) and fault indicator lights
- Fault output J1 and test input J2 for the fire alarm system
- Adjustable output voltage 26–31.5 V DC, max. 320 W
- Can also be used as an operating voltage line extender



Product description

MX Power Box is a power supply module from Emex for MX series exit signs and emergency luminaires. The luminaires are connected to the COM loop of a Panasonic fire alarm system, but they receive their operating voltage from a separate line. The Power Box converts mains voltage into operating voltage lines for up to four COM loops, allowing a large number of luminaires to be connected to the loops without loading the control panel. The manufacturer recommends a maximum of 35–40 luminaires per operating voltage line.

The power supply unit consists of a rectifier and an interface board. Each loop has its own fuse holder (TR5 3.15 A) and green indicator light, and there are separate LEDs for the 24 V IN and TEST indications. Fault output J1 (CONTROL OUT) is connected to an input of I/O unit 4461/4462, so that the control panel reports a fault if the voltage is lost, a fuse blows or the supply to the power supply unit is interrupted. Via test input J2, the emergency luminaires can be switched on for testing with a relay of the I/O unit. The output voltage is adjustable; for long loops the recommended setting is approximately 31.5 V.

Installation

The Power Box is mounted on the wall. The COM loops from the control panel are connected to the bottom row of the board and the loops going out to the luminaires to the top row (row A outgoing, row B returning). The power supply unit can also be used as an operating voltage line extender, in which case the fault output of each Power Box is connected to its own I/O input.

Technical data

Product code	810000
Manufacturer	Emex
Product group	Emergency lighting > Power supplies
Weight	4.6 kg

Dimensions	434 × 350 × 83 mm
IP rating	IP41
Operating voltage	88–264 V AC (110/230 V AC)
Operating temperature	–30...+60 °C
Standards	Tested and approved in accordance with EN 55032, EN 61000-3-2 and EN 55024
Product number (Emex)	810000
Output voltage	26–31.5 V DC, adjustable
Output current	Max. 11.9 A
Output power	Max. 320 W
Capacity	4 COM loops
Fuses	TR5 3.15 A, one per loop
Battery	No
Material	Steel
Colour	Light grey
Storage temperature	–40...+85 °C
Humidity	Max. 95% RH, non-condensing
Mounting	Wall mounting

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Technical datasheet: MX Power Box

Certificate: EU declaration of conformity

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/mx-power-box/