

## PROset Pen

### Mobile communication tool

Art. no. 22170290

Unit for addressing, configuration and maintenance of single- and centrally-supplied safety luminaires

#### Application

The PROset Pen is a mobile communication tool that can communicate with other devices via NFC (near field communication) and Bluetooth and thus enables simple operation of single-supply and central-supply emergency luminaires. The NFC technology supports wireless commissioning and enables the reading and writing of various parameters of the control unit. Via Bluetooth, the PROset Pen can communicate with the PROset app for smartphones. The EM POWER PROSET control unit is programmed and configured without mains connection in a voltage-free state.

#### Design notes

- NFC range: max. 1 cm between PROset Pen and EM Power PROset
- Bluetooth (BLE) range: max. 10 m with direct line of sight
- Battery of the PROset Pen: is charged via micro-USB socket at the lower end of the PROset Pen; charging time: after 2.5 h > 90 %; runtime: approx. 10 h (in standard operation, without using the PROset Pen as gateway)
- PROset app: download from the Google Play Store or iTunes Store



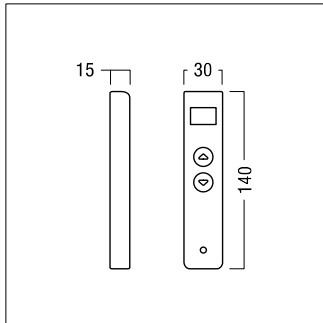
#### Functional description

- NFC interface: an innovative interface based on NFC technology; enables rapid and simple addressing, configuration and maintenance of single- or centrally-supplied safety luminaires.
- Addressing: implemented via the NFC interface; each luminaire can be assigned an individual number.
- For convenient addressing, various addressing ranges can be selected:
  - Address range 1 - 20: for centrally-supplied safety luminaires
  - Address range 1 - 64: for safety luminaires with separate battery supply
- Selectable modes: The Pen has modes Writing and Reading. The writing mode enables the address and switching mode to be set. The reading mode is for receiving and reading out of data from the control unit. Also, the combination of reading with writing mode can be used to copy a configuration to a non-configured control unit. This enables the article quantity of spare parts to be reduced by over 95% down to 4 pieces.
- Bluetooth: via Bluetooth, the PROset Pen can communicate as a gateway with the PROset app for smartphones. Here the EM POWER PROSET control unit communicates via NFC with the PROset Pen that in turn is coupled via Bluetooth with the smartphone (Android or iOS).

## Mounting and installation instructions

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## Dimension



## Technical data

Connections	Micro USB port 2.0, type B
Interface	NFC: ISO/IEC 14443-A BLE: Bluetooth 4.1 USB: USB 2.0 for charging
Data transmission speed	NFC: max. 106 kbit/s BLE: max. 1 Mbit/s USB: max. 480 Mbit/s
Frequency	NFC: 13.56 MHz BLE: 2.4 GHz
Protection type	IP30
Protection class	Class III (safety extra low voltage)
Housing material	WEVO bonding compound L413
Dimensions	30 x 143 x 15 (W x H x D, in mm)
Permissible ambient temperature ta	during running operation: -10 – 40°C with charging: 0–40°C with storage: 25°C at 80% battery capacity
relative humidity	20–90 %, non-capacitive
Miscellaneous	monochrome OLED display (0.95°)
Type of battery	LiPo Rated voltage: 3.7 V, typical 950 mAh
Weight	Approx. 0.08 kg

## Label/connections

