



Accessoires pour produits Wireless

Dispositif de mesure de champ EPM 300 EN868

Code-article: 1187180 (Ancien code-article: 90598005)

Caractéristiques/Options:

- Approprié uniquement pour technologie radio EnOcean®
- Dispositif de mesure de champ pour la définition du plan de fréquences
- Pour mesurer et afficher la force du champ électrique
- Les piles ne sont pas comprises dans la livraison.
L'appareil nécessite une pile au lithium AA/LR91.
- Mode répéteur sélectionnable

Photo produit





// EPM 300

Betriebsanleitung / Feldstärkemessgerät Operating instructions / Field strength testing tool

English

Destination and use

The EPM 300 is a mobile tool for radio link range testing. It helps electrical installers to find the right position to mount products supporting EnOcean protocol. The transmission is carried out at a frequency of 868.3 MHz. The receiver must conform to the EnOcean protocol of the PTM- and STM-modules.

Operation/Function

Open battery cover on the backside and insert two AA/LR06 batteries. Activate EPM 300 by pressing the on/off button. Battery low will be indicated by flashing mode LED. Send EnOcean telegram by pushing a self-powered switch (e.g. PTM 200) or by pressing the learn button of a self-powered sensor. Signal strength (RSSI value) will be shown by a reverse traffic light: green >-75 dbm, yellow <-75 dbm, >90 dbm and red <-90 dbm. Valid LED shows if a valid telegram PTM switch or sensor teach-in telegram has been received.

Signal indicators

- Signal High & Valid indicates a very well received radio telegram. All kind of EnOcean receivers/transceivers can be placed.
- Signal Low & Valid indicates a received telegram with medium field intensity (RSSI) level. An external antenna or repeater is recommended.
- No installation means there is no telegram received or the received telegram is received at a very low RSSI level.
- Signal High without Valid indicates a high level of background noise on the same carrier frequency. This could be from other radio devices. This signal will disturb EnOcean telegrams.
- Signal Low without Valid indicates a medium level of background noise on the same carrier frequency. This »noise« can come from EnOcean sensor or system telegrams (no teach in) or other radio devices.

Operation modes

- Peak hold short for signal strength / range test: mode will indicate every radio signal on the corresponding frequency band. Valid telegrams will have a peak hold for 1s. This mode is used to track radio activities with a short period e.g. push and release telegrams of a PTM switch.
- Peak hold long for signal strength / range test: will indicate every signal for about 60s. This is used to test radio telegram range by a single person (installer).
- Repeater mode (1-level) and Radio link test / automatic range test: mode can be used to find the best position for a 1-level repeater. A 1-level repeater will repeat a received telegram after a random delay if it is valid and original (i.e. not yet repeated). The repeated telegram will be marked as »repeated« by an increased repeater counter.
- Radio Link Test (RLT): There are two possible ways the RLT mode can be used in: Basic: if the EPM 300 is switched to RLT, it will send telegrams periodically every 2s. Valid LED will flash for every RLT telegram sent. Advanced: using an advanced field tester (e.g. PROBARE P30), the EPM 300 can be used in slave mode. If switched to RLT, it will automatically pair with an advanced field tester (AFT), where the AFT acts as RLT Master and the EPM 300 as RLT slave.

- Mode LED flashing indicates battery low. Please replace battery.

Notices

Use of secondary (rechargeable) batteries with 1.2 V cells (e.g. Ni-Cd/ NiMH) is not recommended. If you don't use your EPM 300 for a longer period, remove the batteries from the device. This will increase the lifetime of both batteries and the product. EPM 300 and EPM 300C has an internal antenna. The described area should not be covered by metal or other shielding material. It is recommended to hold EPM 300 below this antenna area. Signal strength of radio signals decreases with increasing distance between transmitter and receiver. The transmission range also depends on the materials used in the building. The transmission range is reduced by increasing the distance between transmitter and receiver, shielding by metal or thick walls mounting transmitter or receiver on the floor or close to the floor, high humidity in materials, devices transmitting RF signals such as computers, audio and video equipment or electronic gear controls for lamps. A minimum distance of 0.5 m should be kept. **The devices can be operated registration- and license-free on the territory of the EC, Switzerland and Cyprus. The use in other countries must be explicitly clarified!** Subject to technical modifications. Reconstruction and alterations at the switch are not allowed. Moreover steute does not assume any liability for recommendations made or implied by this description. From this description new claims for guarantee, warranty or liability cannot be derived beyond the general terms and conditions of delivery.

Technical data

Standards	R&TTE: EN 300 220 (868 Mhz); FCC: CFR-47 Part 15 (315 Mhz); RoHS
Protection class	IP 54 per EN 60529
Protocol	EnOcean
Ambient temperature	0 °C ... +45 °C
Storage and shipping temperature	-15 °C ... +65 °C
Voltage supply	AA/LR06 cell (recommended Energizer L91)
Frequency	868.3 MHz
Sensing range	max. 300 m outside, max. 30 m inside
Dimensions	110 x 70 x 25mm
Weight	85 g (w/o battery)