

Getting Started V1.2

February 2005

EPM 100 General Description

EPM 100 is a mobile tool for measuring and indicating the received field strength (RSSI) of EnOcean telegrams and disturbing radio activity at 868.3 MHz.

It supports electrical installers during the planning phase and enables them to verify whether the installation of EnOcean transmitters and receivers is possible at the positions planned.

Getting Started




1. Open the screw on the back side and insert a 9 V battery (use of accumulators is not recommended)
2. Switch on power by pressing the POWER button.
3. Generate an EnOcean telegram by operating a PTM switch or a STM sensor
4. The RSSI LEDs (1x red, 2x green) show the signal strength at 868.3 MHz
5. The yellow LED shows if a valid telegram has been received
 - a. **Units indicated with letters „AA“ under the CE sign: Indication of any EnOcean telegramm**
 - b. **Units indicated with letters „AB“ under the CE sign: STM-telegrams without active LRN bit (or DI_3 of STM100) are ignored. Background information: Suitable filter of presence signals from cyclic transmitting sensors**



Switches and LEDs

Symbol	Function
POWER	In ON position the EPM 100 is ready for operation. Auto power off: After 7 min without reception of any EnOcean telegram the EPM 100 is automatically switched off. In OFF position the EPM 100 is completely switched off.
BAT	The BAT LED signalizes low battery voltage
MODE	Peak-hold time: After reception of an EnOcean telegram the RSSI signal is displayed for the selected peak-hold time (5s or 1min). If another telegram is received during this time the signal level of the latter is displayed and the peak-hold time starts again.
RSSI	The RSSI indicator shows the measured activity in the 868,3 MHz frequency band.
TELEGRAM	The telegram LED indicates that a valid EnOcean telegram (at least two sub-telegrams) has been received. <ul style="list-style-type: none"> Unit Version AA: Any EnOcean telegram Unit Version AB: STM signals without active LRN bit (or DI_3 of STM100) are ignored

Meaning of indicators

Indicators	Meaning
	Valid telegram with good or sufficient signal strength received. An installation of transmitter and receiver at the chosen positions is possible.
	Valid telegram received but no reserve in signal strength. It is recommended not to install transmitter and receiver in these positions. The installation of a repeater should be evaluated.
	No telegram or invalid telegram received. An installation at these positions without repeater is not possible.

Application Examples

Example 1 (2 installers): Person 1 operates an EnOcean switch. Person 2 monitors the received field strength at the desired mounting position.

Example 2 (1 installer): The EPM 100 is placed at the desired mounting position for the receiver. The EnOcean switch is also placed at the desired position. After pressing the button the installer can go back to the EPM 100 and see whether the radio signal was sufficient (green) or not received at all (red).

This product is CE certified and conform to the R&TTE EU directive on radio equipment.

Type	Ordering Code
EPM 100	S3004-J100