

PCN #: S6221-K516-Revision\_DB10-PCN-20250311  
Change Title: STM 550B Product Update (Revision DB)  
Date of publication: March 11<sup>th</sup>, 2025

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## Products affected / EnOcean ordering codes

- STM 550B / S6221-K516
- STM 550B KIT / B6221-K516

## Description of change

- Hardware has been updated due to unavailability of a component in the STM 550B power management
- Light level measurement has been changed from spot measurement to wide area measurement to enhance measurement consistency in real-life conditions
- LED feedback has been improved by using a bi-color LED to better identify different feedback scenarios
- Default reporting interval has been changed to 120 seconds to reduce redundant reporting

## Reason for change

- HW update was required because a key component (advanced supervisor circuit) used in the STM 550B power management became unavailable following an incident at the component manufacturer. This component had to be discontinued by the supplier without the option for last time buy.
- Light level measurement was changed from spot measurement (using a recessed sensor positioned below the device surface) to wide area measurement (using the calibrated solar cell on top of the device).  
The recessed placement of the sensor resulted in a narrow field of view which could lead to variation of the measurement value depending on the angle of the incoming light and the position of possible obstructions between light source and sensor. The solar cell is positioned directly at the surface and provides a wider field of view which enhances the consistency of measurement results.  
The Property ID used for reporting the measured illumination has therefore changed from ID = 0x45 (spot illumination) to ID = 0x44 (wide area illumination).
- The LED indication was changed from single color to bicolor to simplify identification of STM 550B responses to user configuration actions such as button presses
- The default update rate was changed to 120 seconds to reduce redundant data transmissions for temperature, humidity, acceleration and magnet contact sensor use cases. Note that the update rate can be set to the previous value of 60 seconds via NFC if required.

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## Milestones

- Pre-change products  
The previous revision is not available anymore due to unavailability of a third-party component
- Post-change products  
Delivery start is expected in March 2025

## Step codes after change

- S6221-K516:DB
- B6221-K516:DB

## Customer impact of change and recommended action

- Light level measurement has been changed from spot to wide area  
The result is therefore reported using Property ID 0x44 (wide area illumination) instead of Property ID 0x45 (spot illumination). The telegram data parsing at the receiver must be updated accordingly if illumination measurements are used.
- Change description of LED feedback (if required)
- Configuration of a different update interval via NFC (if required)

## Reference Documents / Attachments

- STM 550B User Manual (Revision DB)

## PCN revision history

Date of revision	Author	Revision number	Reason
March 11, 2025	MKA	00	Original PCN