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## 1 Basic equipment requirements

- All WWC-PCB based units can potentially be moved to “3D” (= SDRX, PDRX, EXN-II, TSP-TWIN)
- Software-version WWC-PCB: **V03.3** or higher.

### **Note/important:**

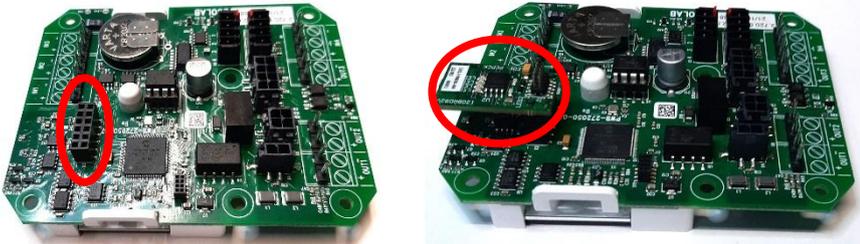
- The mounting of the EN-module is mandatory.
- Equipment must stay powered on during the “wash day”.

### Reasons:

- 1) A connection of the dispenser directly to the wash pump will not work because only every 5 minutes a data set will be moved to the cloud) and at hood type machines the wash time is often shorter.
- 2) No efficiency calculation will be possible when the dispenser is only active during wash cycle.

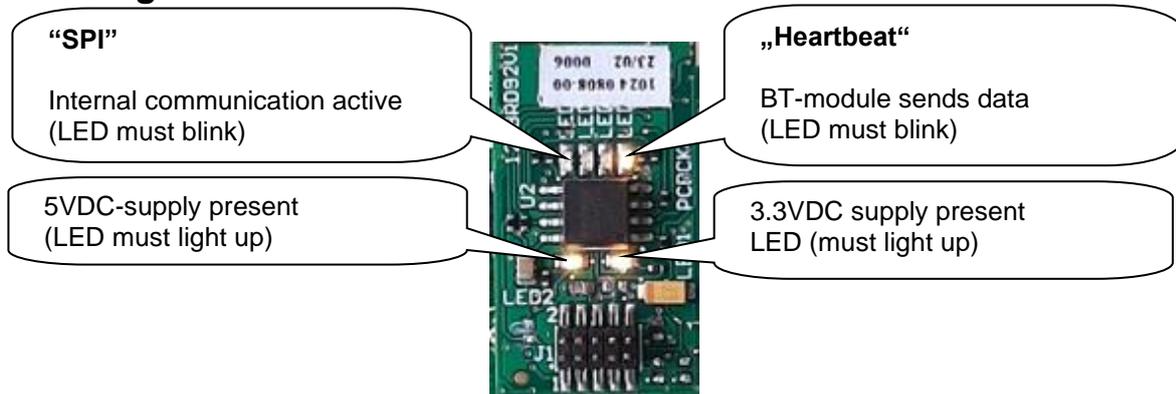
## 2 Ecoplus-Bluetooth-PCB (EBS&EE-PN:10240808)

### 2.1 Mounting



**Please note:** A wrong mounting can damage both electronic boards.

### 2.2 Meaning of LED's



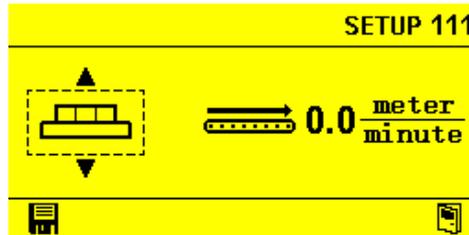
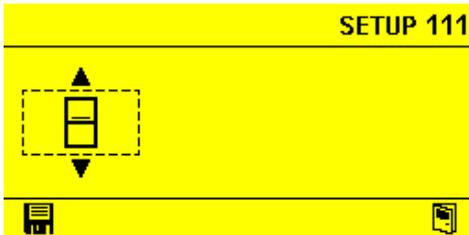
Fault description	Cause	Remedy
5V-LED is off (LED2)	(No supply from WWC-PCB) BT-PCB not mounted correct. WWC-PCB not on power. WWC-PCB defective.	Mount BT-PCB in the right way Switch on WWC-PCB Change WWC-PCB
3.3VDC LED is off but 5VDC is on	BT-PCB defective	Change BT-PCB
No "heartbeat"	BT-PCB defective	Change BT-PCB
"communication LED" don't blink	WWC-PCB has wrong software	Install SW V3.00 or higher

### 3 Setup WWC-PCB-controller

From V3.00d a “belt-speed” has been added in the DW-setup display 111.  
So, now it is mandatory to set up the right DW-type (Single tank or conveyor).

**Please note / IMPORTANT**

- With that the special dosing behavior at “Single tank” is no longer active (in both settings the standard dosing procedure is working).



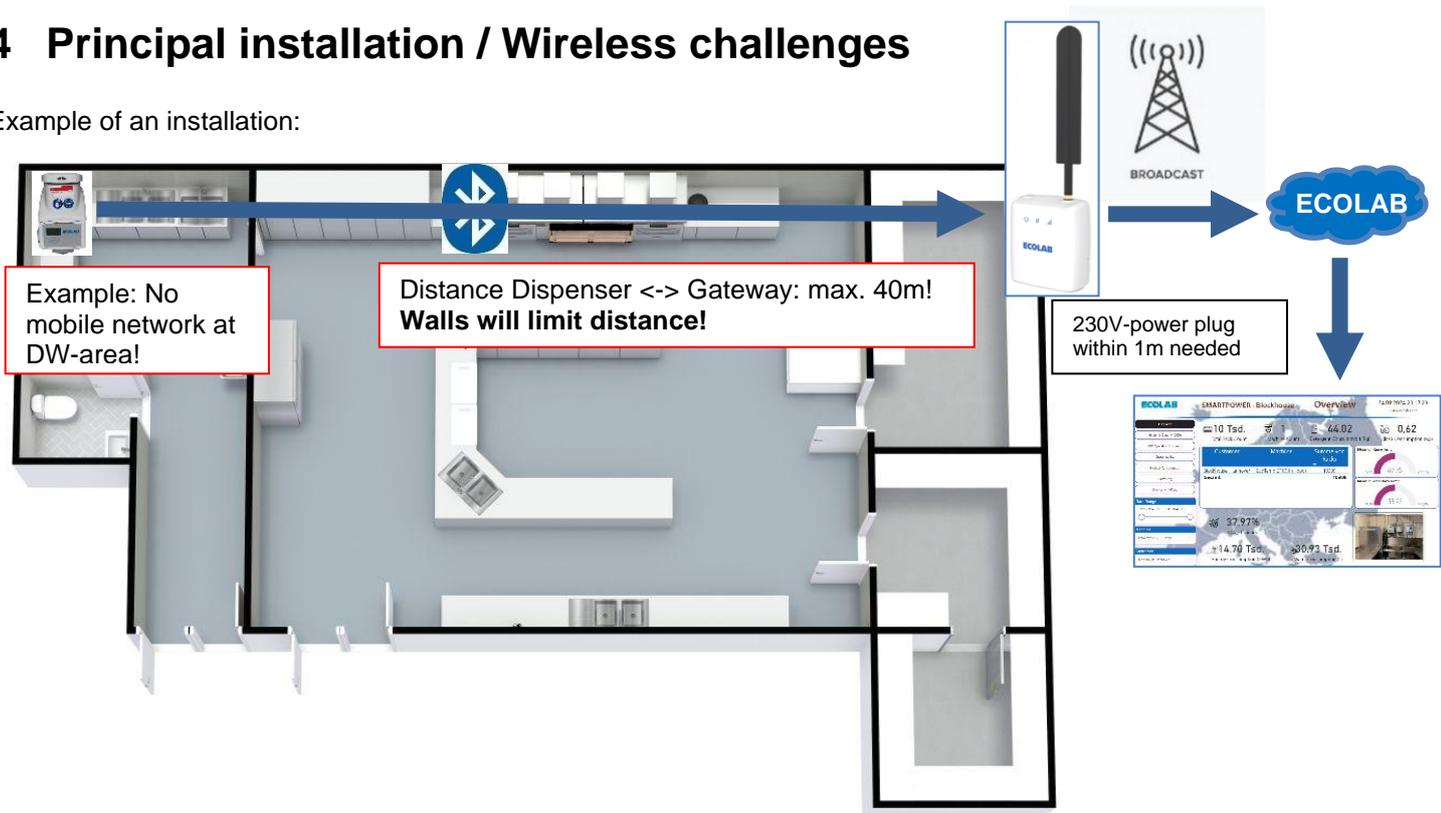
With this “belt speed” parameter the system creates “Rack counts”  
Internally we calculate with a Rack-size of 0.5m.

E. G. The belt speed is 1m/min → we count 2 racks per minute

The indicator for the Belt-On is the EN-WASH signal

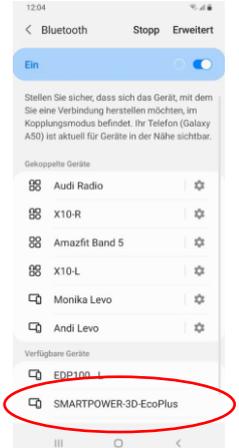
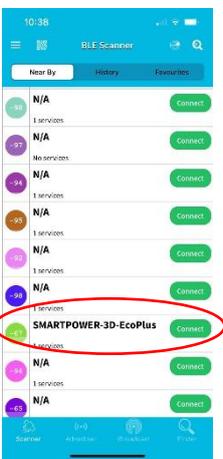
### 4 Principal installation / Wireless challenges

Example of an installation:



## 5 Check availability of Bluetooth at Gateway position

The following procedure describes how to test whether there is the Bluetooth signal from the dispenser present at the Gateway position.

#	At Android devices	At iPhone
1	Switch on dosing unit (only the unit where the connectivity should be tested) This unit sends a Bluetooth signal	
2	Go to the Gateway position	
3	<p>Open the Bluetooth-connection at the mobile device (long press to BT-symbol) ⇒ SMARTPOWER-3D-ECOPLUS appears.</p> 	<p><b>NOTE:</b> Install an appropriate Bluetooth-sniffer app (e. g. BLE-Scanner 4.0). Start the App ⇒ SMARTPOWER-3D-ECOPLUS appears.</p> 
4	Do the same with the other dosing devices.	
5	Check the cellular network See LED-condition at Gateway Cap. 6.1 (LED should light up yellow or green)	
	<b>Comment:</b> Eventually an installation of more Gateways is required	

## 6 Link gateway (EE-PN: 10241498, EBS-PN: 53006305)

### 6.1 Description of LED's

Power LED (white)  
(lights up only weak)

OP-Mode-/RF-LED:

LED-colour	Cellular network connection
Red	connected, weak signal
Yellow	connected, okay
Green	Connected, good
Blue (blinking)	Connection phase to cellular network

Fault description -  - LED	Cause	Remedy
Off (no LED on) for more than 30sec	Modem hardware undetected	Switch off/on again Change Gateway
Blue (blinking)	Connection phase	--- (nothing, normal op-mode)
RED	Weak (but existing) cellular network	Try to find a gateway position with a better modular gateway performance
Yellow	Acceptable cellular network	--- (nothing, okay)
Green	Good cellular network	--- (nothing, okay)

### 6.2 Serial number

The serial number you can find on the back side

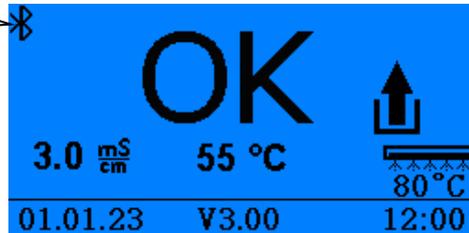
ECOLAB  
Model: 1 Link Gateway  
MFG DATE: 02-23-21  
SERIAL NO: S20448000983  
REV: 2.0  
ASSEMBLED IN USA

IMEI: 354592110776018  
HW REV: 2.01 MFG LOC: 08 MFG DATE: 02-23-21  
CONTAINS FCC ID: R115P000400C ID: S15A15P000400  
CONTAINS FCC ID: T15-HEC00 ID: S15A-102

## 7 WWC-PCB firmware information

### 7.1 Standard display

If BT-module is connected the "📶" will be shown.



**Note:**

(Currently not in operation):

- Will the commissioning be done with an appropriate APP (e. G. ESA-APP) "📶" will appear – the "L" shows that the system is linked to the cloud.

## 8 Digital setup (digital check list)

Currently the setup with the ESA-App does not work. So, until further notice, the digital setup process must be done manually via the Forms – see Cap.8.1.

### 8.1 Fill out the FORMS with all customer related data

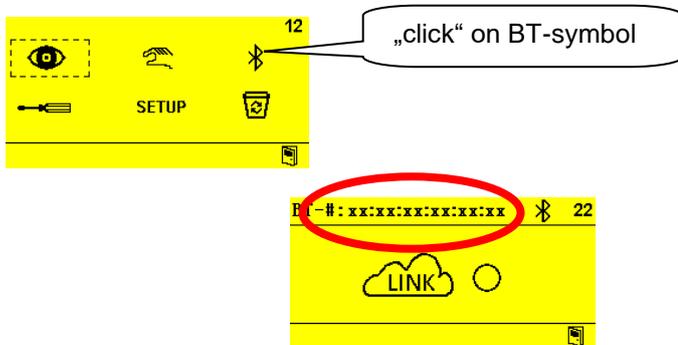
This Forms includes all customer related data, the dosing unit, chemistry and the BT-# and Gateway-SN

<https://forms.office.com/r/H8MCdNMeS2>



### 8.2 BlueTooth-address

You will find the BT-# in display 22 of WWC-PCB



### 8.3 Gateway serial-number

The Gateways must be moved into our EcoPlus – IOT-hub.  
The serial number can be found on the packaging and on the Gateway itself.



## 9 Technical Specifications

See dispenser- and WWC-PCB-manual

## 10 WWC-Software Version – History

WWC-PCB Software Version	Comment
<b>Field test I (2023 to April 2024)</b>	
V3.00c	1. Field test version
V3.00d	BT-MAC-Address now shown in Display 22
<b>Field test II (from August 2024)</b>	
V03.1 (only Hilton München)	New Versioning New Beaconsing SQL-Data base compatible
V03.2	Bug fixing
V03.3	Bug fixing – 3 meal period → sending correct data to cloud