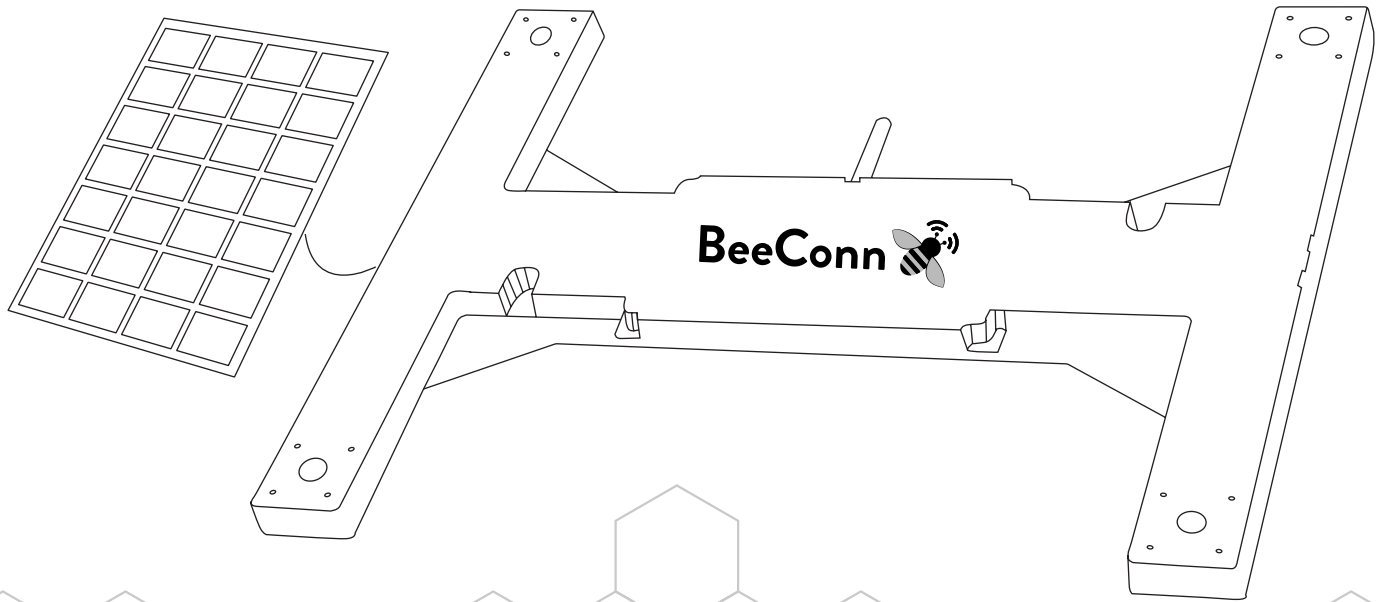
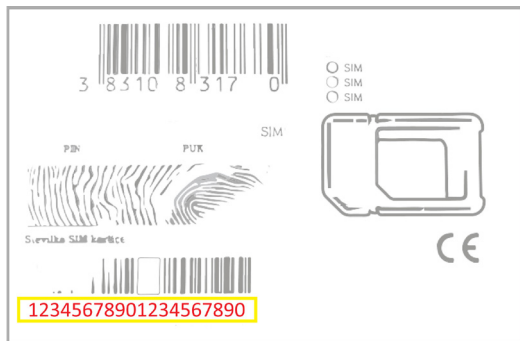


BeeConn Lite User manual

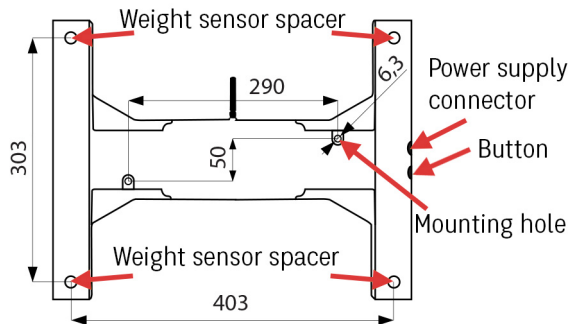


Thank you for purchasing BeeConn Lite! Please follow the steps below to set up and use your device.

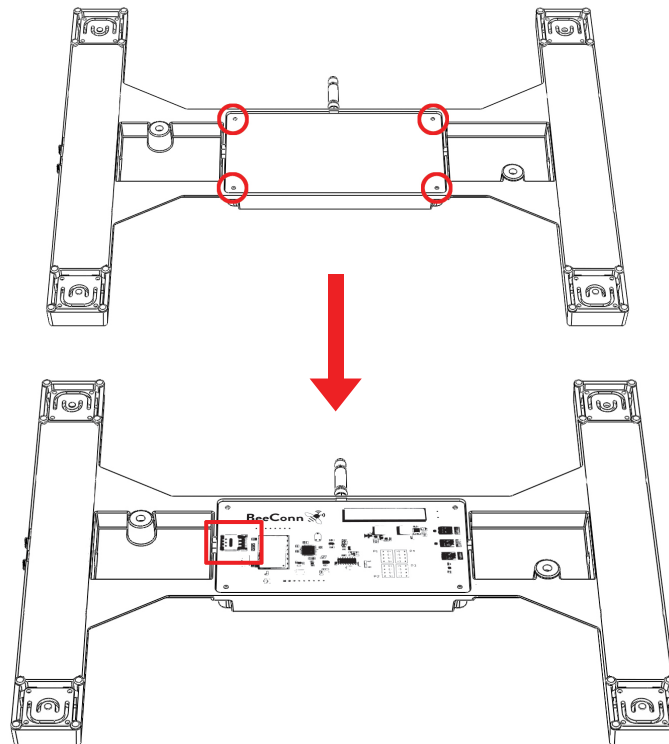
Pictures



Picture 1



Picture 3



Picture 2

SIM Card activation

In order to use the BeeConn Lite you need to have an active SIM card. To purchase a BeeConn SIM card subscription go to BeeConn web shop or contact our team at info@beeconn.net. Please have the SIM card number (20 digit number) ready for activation, you can find it on the card in the envelope (picture 1). After activation you will receive the phone number which is used to configure the scale.

Charging the BeeConn Lite scale

The BeeConn Lite scale is powered with an internal energy storage capacitor and with small solar panel that is included in the package. Internal energy storage of the scale can power up the scale up to 5 days without any sunlight. In case of energy loss, the scale will resume working once the solar panel start producing energy again. Alternatively the scale can be powered by the

Setting up the BeeConn Lite scale

BeeConn Lite scale must be placed on an even, horizontal hard surface in such a way that the weighing sensor spacers are turned upwards, and the button and power supply connector are accessible when the hive is placed on top of the scale. The scale has two holes with a 6.3 mm diameter that can be used for attaching the scale to the surface (picture 3).

Place the beehive on the installed scale and make sure that the bottom of the beehive is standing only on the weighing sensor spacers. To ensure proper weight measurements, the bottom of the beehive must not touch any other part of the scale and the

If you want to use your own SIM card you can install one by removing the cover on the bottom of the scale and replace the BeeConn SIM card with your own (picture 2). SIM card needs to be unlocked and without PIN. For activation of your SIM card refer to provider of the selected SIM card.

provided USB cable from any USB power source. For first time use it is recommended that the scale is powered with included USB cable for about 15 minutes from any USB power source to secure enough power for initial configuration of the scale.

beehive should not lean on any other object surrounding the beehive. In case of hives that do not have a suitable flat bottom, or the flat surface does not touch the weighing sensor spacers only, you need an interface plate or two crossbars to be put in between the scale and the hive. Interface plate can be purchased on the BeeConn web shop or by contacting our team at info@beeconn.net.

Plug in the solar panel cable and put the solar panel on a sun exposed place (i.e. on top of the beehive).

Configuring the scale

Once the scale is powered up and correctly set up it can be configured for measurements. To configure the scale follow the steps below:

1. Hold button on the scale for 5s to initiate configuration mode. Light on the button will start blinking green.
2. Send pin number to device (default 1234).

user SMS	scale return SMS
PIN XXXX	PIN entry successful, welcome!

3. Change PIN. For security reasons it is recommended that you set up your own PIN for the scale. The set up PIN has to be saved safely as after 3 wrong PIN entries the scale will lock itself for 24hrs. If the PIN is lost the scale can only be unlocked by the manufacturer.

user SMS	scale return SMS
Set pin XXXX	New PIN: XXXX

4. Set contacts which will receive the automatic SMS with measurements. There can be up to 3 contacts total. Input the mobile phone number, which can receive SMS in international format, in example +38612345678.

user SMS	scale return SMS
Set contact 1 +XXXXXXXXXX	My contacts: Contact 1: +XXXXXXXXXX Contact 2: Contact 3:
Set contact 2 +YYYYYYYYYY	My contacts: Contact 1: +XXXXXXXXXX Contact 2: YYYYYYYYYY Contact 3:
Set contact 3 +ZZZZZZZZZZ	My contacts: Contact 1: +XXXXXXXXXX Contact 2: YYYYYYYYYY Contact 3: ZZZZZZZZZZ

5. Set times at which the scale will perform the measurement. The scale can perform up to 3 measurements at full hour per day. In example at 9:00, 15:00 and 21:00 – in this case the configuration SMS should be Set mess 09,15,21.

user SMS	scale return SMS
Set mess HH,HH,HH	Measurement at HH, HH, HH

6. Configuration is done. To exit configuration mode, send one more SMS to finish configuration and put the scale in operation 7.

user SMS	scale return SMS
Exit	Exiting! Starting normal mode...

7. Scale is configured and will perform the measurement at designated times. You will start receiving SMS with the data after every measurement to delegated mobile phone numbers.

scale measurement SMS
Hello! Your BeeConn Lite data: Weight: 51.38kg, Diff.: +0.38kg Temp: 23.10°C; Moist: 63.15% Status: OK Have a nice day! :)

Additional settings

To initiate configuration of the scale start configuration mode.

Hold button on the scale for 5s to initiate configuration mode and unlock the scale with PIN number. After 5s press of the button the light on the button will start blinking green and scale will wait up to 3 min for your PIN SMS. Send SMS with your PIN number: PIN XXXX.

Scale will only respond to user SMS while configuration mode is initiated. In configuration mode any of the configuration commands can be performed (PIN change, setting contacts, setting measurement times...).

Clearing/replacing contacts

In case you want to replace contact, send command of the contact with new number and the contact will be replaced. In case you want to delete contact, send command of the particular contact without the phone number and the contact will be deleted.

Example of clearing contact 2:

user SMS	scale return SMS
Set contact 2	My contacts: Contact 1: +XXXXXXXXXXXX Contact 2: Contact 3: ZZZZZZZZZZ

Reviewing contacts

In case you want to see your s contact:

user SMS	scale return SMS
Get contacts	My contacts: Contact 1: +XXXXXXXXXXXX Contact 2: YYYYYYYYYY Contact 3: ZZZZZZZZZZ

Reviewing measurement times

In case you want to see the set-up measurement times.

user SMS	scale return SMS
Get messtime	Measurement at HH, HH, HH

Quick measurement

BeeConn Lite can perform a measurement upon request while in configuration mode.

user SMS	scale return SMS
Measure	Hello! Your BeeConn Lite data: Weight: 51.38kg, Diff.: +0.38kg Temp: 23.10°C; Moist: 63.15% Status: OK Have a nice day! :)

Stop measurements

In case you want to stop receiving measurements for a while (i.e. if the beehive is empty or in winter...).

user SMS	scale return SMS
Set mess	Measurement at 0, 0, 0

Factory reset

In case you want to perform a factory reset.

user SMS	scale return SMS
Reset	Factory Reset done

Troubleshooting

Problem	Solution
Scale doesn't send SMS	Scale is not configured properly – follow configuration steps. Scale may be out of power – one time issue could be do to long period of bad weather; repeating issue check the placement of the solar panel. Scale will resume normal operating mode once there will be enough power.
Scale sends unrealistic measurements	Check the scale set up, hive must not touch the housing of the scale. It should only be on the weighing sensors spacers. Check that the hive doesn't touch any object next or above the hive.
Scale sends SMS: Wrong command.	The sent SMS to the scale was not formatted correctly. Please review the command and spelling.
Scale sends: Wrong PIN. Two attempts left.	Wrong PIN was sent to the scale and unlocking was not successful. There are 3 attempts for correct PIN. If the third PIN entry fails the scale will lock itself for 24 hrs. after 24hrs you can send perform new 3 attempts.
Scale sends status NOK, xxxx	0001 – low power 0002 – large temperature change 0004 – large moisture change 0008 – large weight change 0009 low power and large weight change



Manufacturer information

Manufacturer:

Strip's d.o.o., Kandrše 7, 1252 Vače, Slovenia, Europe
Tel: + 386 3 56 70 734 | E: info@beeconn.net | W: www.beeconn.net

For more information and customer support,
contact the BeeConn website or send an email to help@beeconn.si.