



Vivent Vita/1-Biosensor Quick Start

1. LoRa Gateway Setup

The delivered gateway is already configured for you.

Please follow the installation steps in this order:

1. Attach the antenna to the gateway
2. CELLULAR: insert your SIM card into the NanoSIM slot.
3. Use the mounting bracket to install the gateway securely (avoid line-of-sight blockers (e.g. solid walls))
4. Connect the power supply to the gateway
5. ETHERNET: Attach an ethernet cable for internet access
6. WIFI: Contact Vivent for procedure

2. Sensor Installation

Use the fixation mounts at the left/right side to attach the sensor directly to the main stem of your plant (e.g. trees) or a suitable gardening pole (>1mm Ø) next to your plants. You can use cable ties, strings, or Velcro strips of your choice.

- Start the sensor by pressing the push-button on the sensor for ~5 sec until all front LEDs are lit up
- Configure the sensor with the Vivent Vita app (Android/iOS)

3. Electrode installation

Each electrode has an active electrode (LEAF, red) and a reference electrode (GND, white). LEAF is always positioned above GND; GND is usually positioned at the base of the stem.

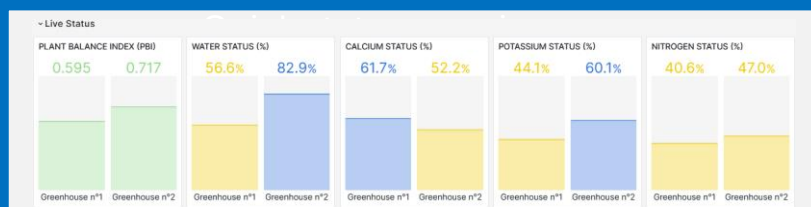
- Connect the electrodes to the sensor
- Insert the LEAF electrode into the plant stem (fix with a ~2x6cm strip of fabric tape around the stem)
- Insert the GND electrode (fix similarly)

4. Access your data

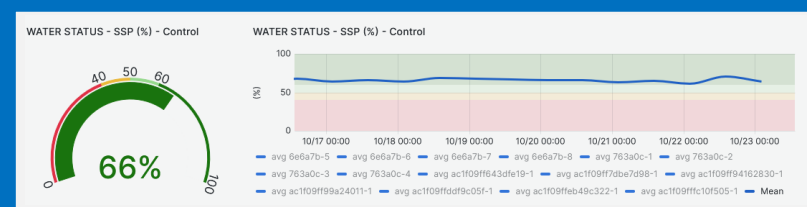
Vivent will provide you with access credentials to view your data; you can log in via: <https://grafana.vivent-biosignals.com/login>.



Quick overviews



Trends over time



PRODUCT SAFETY INFORMATION

To ensure your safety and prevent injury or damage, please carefully read and follow these safety guidelines before using this electronic device.

1. Needle-Sharp Tip Warning

- **Handle with care.** This device' electrode cables contain needle-like open points that can easily **puncture skin or soft materials**.
- **Keep away from children and pets.** Sharp tips pose a high risk of accidental injury.
- **Avoid contact with skin and eyes.** Do not touch the tip directly or aim toward the body. Grab the cable sets on the side, and not on the top/bottom. Consider using protective gloves while operating.

2. Connectivity & Cable Use


- **Use the device in a dry environment.** Keep cables and connectors away from water or moisture to avoid electric shock.
- **Avoid heat and sharp edges.** Do not let the cable rest against hot surfaces or other sharp objects that may cut or melt the insulation.
- **Secure connection.** Ensure the device is properly connected before use to prevent data loss or interference.

3. Electrical Safety

- **Inspect regularly.** Check cables and connectors for wear, fraying, or damage. Replace immediately if compromised.
- **Do not attempt repairs.** If the device malfunctions or is damaged, contact authorized service personnel. There are no user-servicable parts inside, tampering may void warranty and pose safety risks.
- **Do not connect the device** using the cables different from the ones provided by Vivent.

4. General Precautions

- **Use only as intended.** Follow manufacturer instructions. Do not modify the device or use it with unauthorized accessories.
- **Follow local regulations.** Ensure use complies with wireless transmission and electronic safety standards in your region.
- **Report incidents.** Any injury, overheating, or electric shock incidents should be reported to the manufacturer immediately.

 **WARNING:** Failure to follow these safety instructions could result in serious injury, fire, electric shock, or device malfunction.

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Declaration of Conformity

We Benchmark Electronics Limited as the manufacturer and designer declare under sole responsibility that the product

Product Name **Vivent Mini Bio Sensor Vita/1**

Conforms with the following specifications

EMC EN 55013: 2013+A1, EN 55020: 2007+A11: 2011
EN 61000-3-2: 2019, EN 61000-3-3: 2019

LVD EN60065: 2014+A11

RoHS EN50581: 2012

REACH EN1907: 2006

The product herewith complies with the requirements of the EU directives:

2004/108/EC relating to electromagnetic compatibility (EMC)
2006/95/EC relating to electrical safety (LVD)
2011/65/EC relating to the restrictions of hazardous substances (RoHS)
1907/2006, relating to the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

CE

Gavin Hancock

Director

29.4.2025

The technical construction file is held in our office at the above address.