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# **Cranberry Evaluation Kit Datasheet**





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## 1. Introduction

This document presents the eLichens Cranberry Evaluation Kit. It details the different steps to install the software, test the sensors and log data.

### Product summary

#### Product:

- USB adaptator for Cranberry (1-serie) elichens sensor.
- Cable USB type A to USB mini.
- Cranberry gas applicator with  $\varnothing 6\text{mm}$  pipe input.

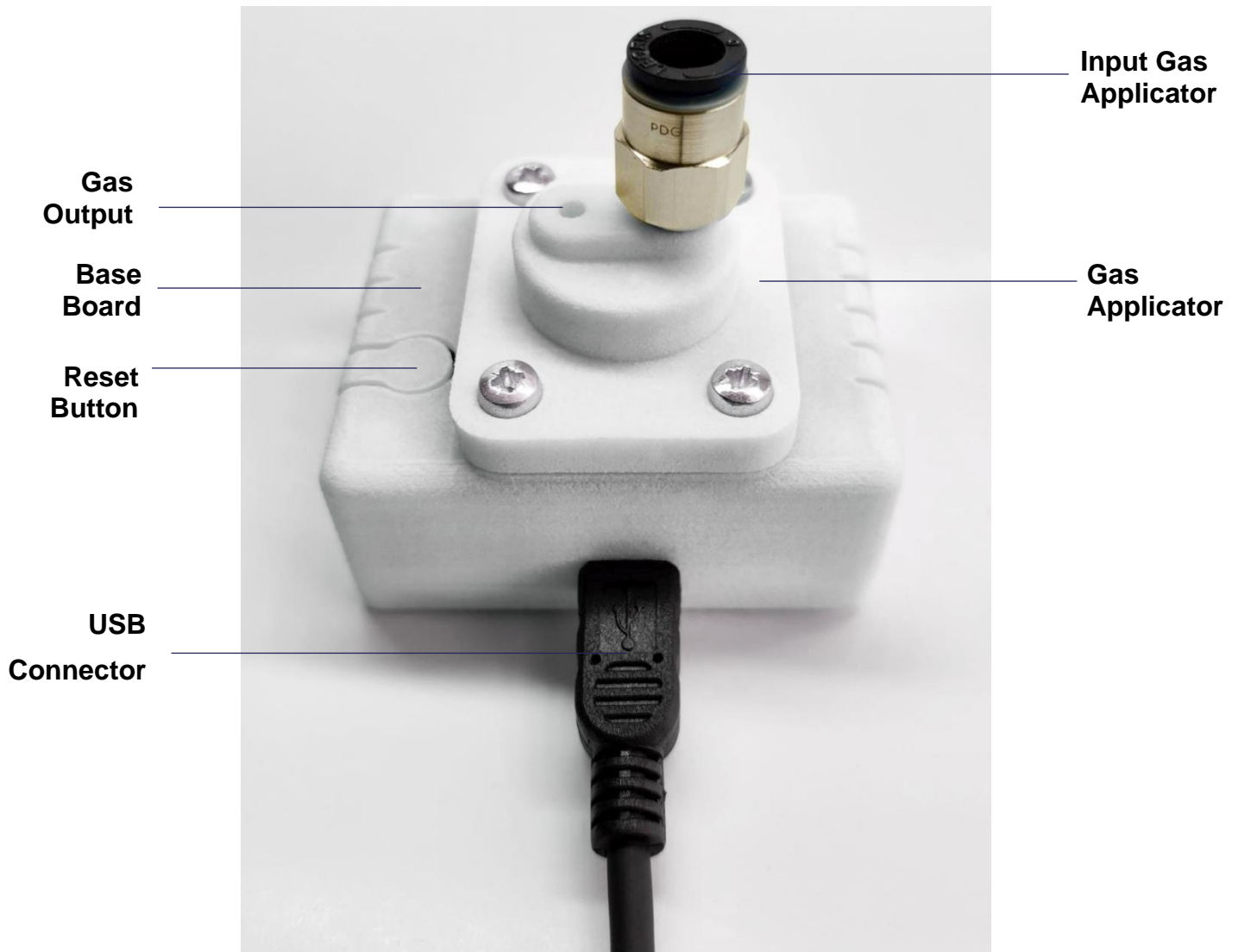
#### Ecosystem:

- Visualization and recording sensor concentration on software.
- Get and change sensor configuration on software.
- User optimal calibration thanks to gas applicator and application.

#### Applications:

- Benchmark
- Plug and play detector

## Components details



**Input Gas Applicator:** connection for 6mm diameter gas pipe.

**Gas Applicator:** mechanical part to press and lock Cranberry sensor on base board with screws. Also used for gas tests.

**Base Board:** Main port of evaluation kit, where the sensor must be connected.

**Reset button:** Hard reset of sensor.

**USB Connector:** Used to connect to a windows device.



## 2. Technical specifications

Operating conditions	
Environment	Indoor
Temperature range	-20...50°C
Humidity range	0-95%RH
Input Gas pipe dimensions	Ø6mm

Power supply	
Power min	3.3 V
Power max	10 V

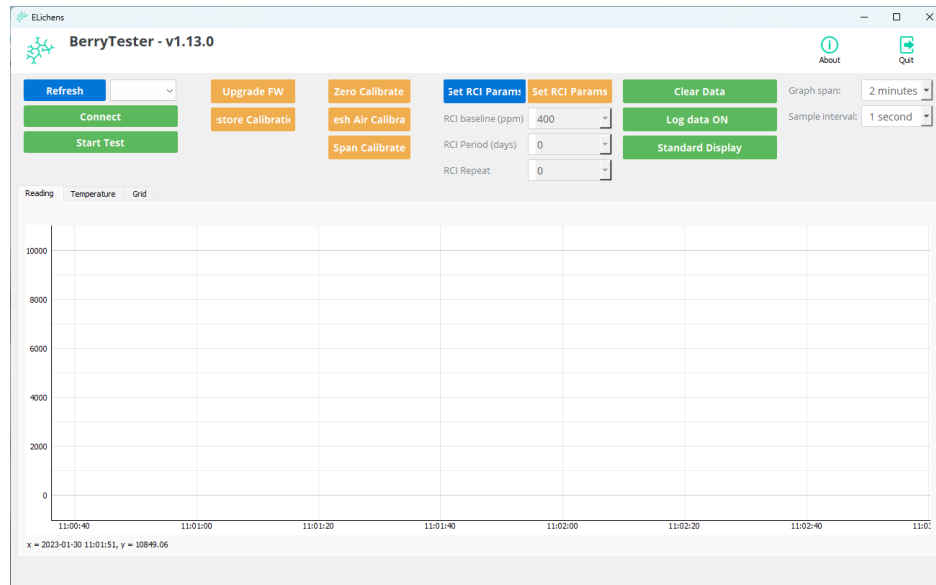
Mechanical dimensions	
Base board	54x42x24 mm
Gas applicator	40x32x32 mm



### 3. Software details

Two eLichens software are available in eLichens user documents folder (User\_Documents\05\_Tools):

- BerryTester, graphic tool to plot and log sensor outputs.



- BerryLogger, advanced command line tool, to log sensor data, get and set sensor parameters and developer mode to see communication frame.

```
Usage: eLichensBerryLogger1.2.0.exe [OPTIONS] COMMAND [ARGS]...

Options:
  --help  Show this message and exit.

Commands:
  log      Log sensor data to a file.
  menu    Interact with the sensor.
  ports   List all COM ports.
```

Please refer to specific software folder for user guide and installation documents.

User can also use terminal emulator for send frames according to eLichens\_Sensors\_Communication\_Protocol