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Mulberry Evaluation Kit Datasheet

Revision	Date	Description of Change
1.0	01/2023	Initial release

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1. Introduction

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

Product summary

Product:

- USB adaptator for Mulberry (4R-serie) elichens sensor.
- Cable USB type A to USB mini.
- Mulberry gas applicator with ⌀6mm pipe input.

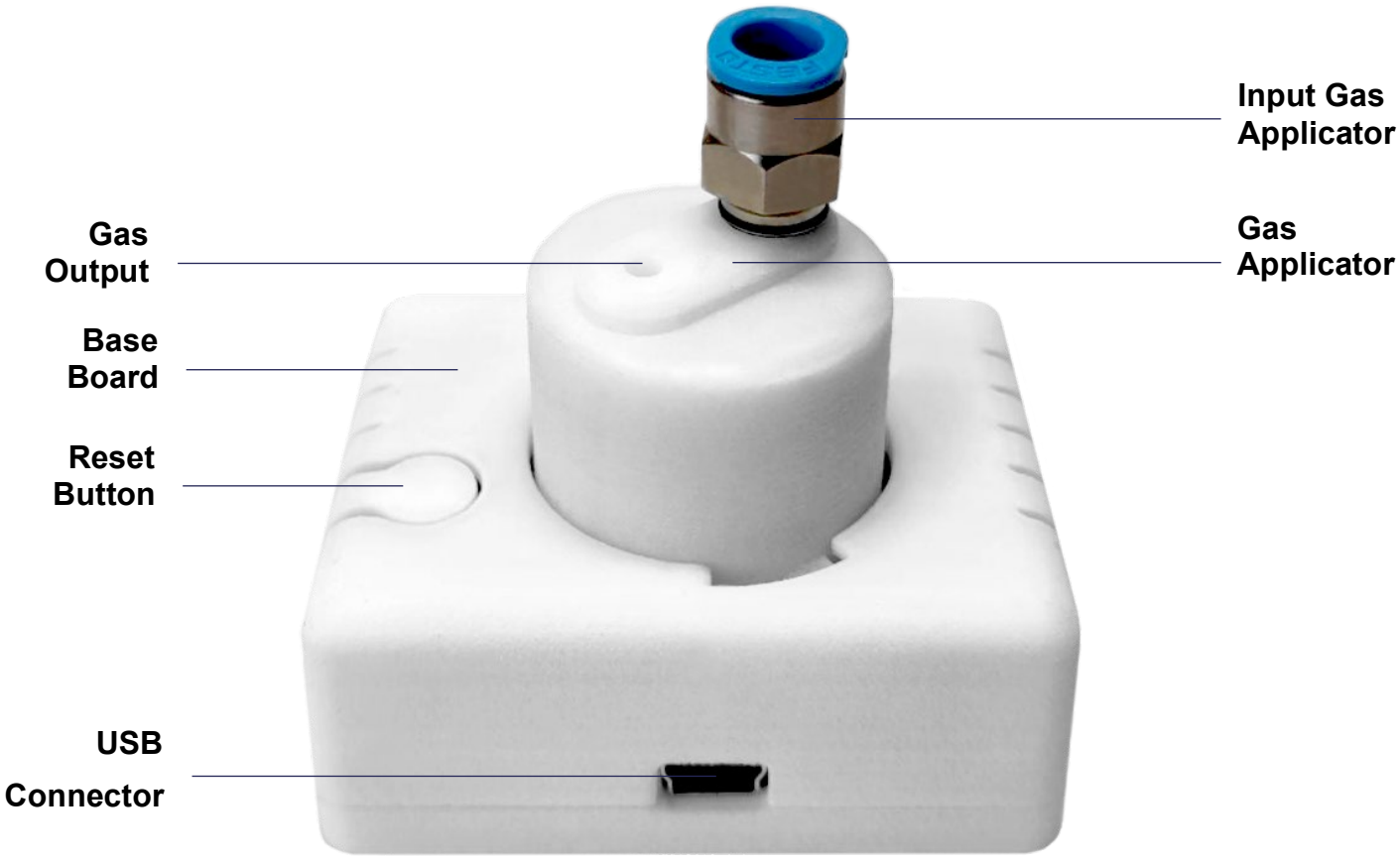
Ecosystem:

- 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 be 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	⌀6mm

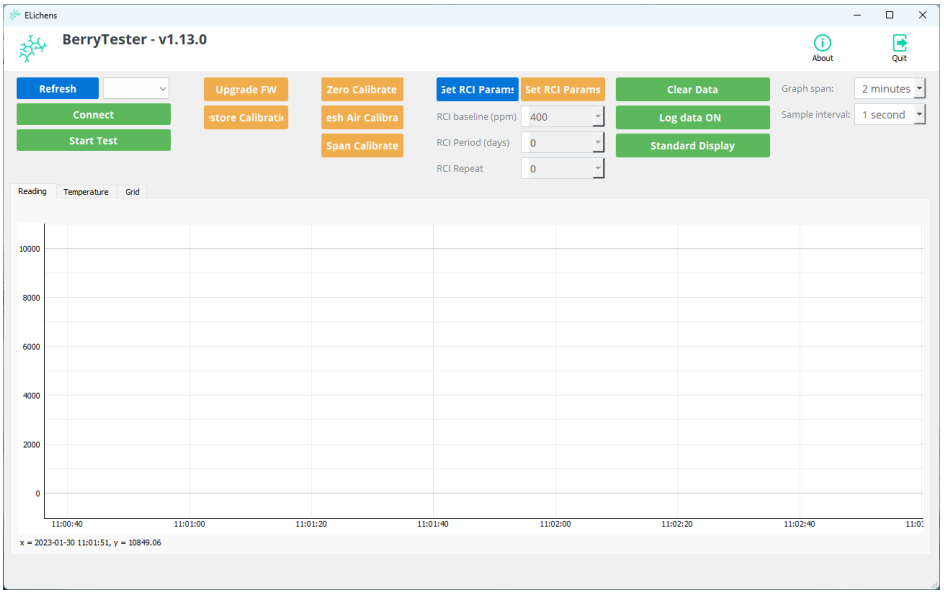
Power supply	
Power min	3.3 V
Power max	10 V

Mechanical dimensions	
Base board	54x42x24 mm
Gas applicator	⌀21x 21 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