PyCRDS

Release 0.0.1

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ONE

PYCRDS

PyCRDS is a library for CRDS (cavity ring-down spectroscopy) data processing.

1.1 Installation

NOTE: This library is not available on PyPI yet. Install documentation is included as a standard element. Stay tuned for PyPI availability!

```
pip install pycrds
```

Or you can clone the repository and install it locally:

```
pip install -e .
```

1.1.1 License

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1.1.2 PyCRDS

Datafile

Flags

`flags.`**`insert_manual_flags`**`(`*df*, *df_logbook*`)`

Return the dataframe with a column flag for manual control quality. Use regex to remove duplicated characters for simultaneous events.

Parameters

- **`df`** (*`pandas DataFrame`*) – data dataframe
- **`df_logbook`** (*`pandas DataFrame`*) – logbook dataframe

`flags.`**`read_logbook`**`(`*path*`)`

Return a dataframe with the logbook data. Read events from the logbook file (.csv). Drop incorrect timestamp. Drop empty lines.

Logbook columns: Initial_date | Final_date | Flags

Parameters **`path`** (*`str`*) – path of .csv logbook

Graphs

`graphs.`**`bokeh_graph`**`(`*df*, *start_time*, *end_time*, *var*`)`

Returns a bokeh graph of one variable for the selected period.

Parameters

- **`df`** (*`pandas DataFrame`*) – dataframe
- **`start_time`** (*`str`*) – ‘yyyy-mm-dd hh:mm:ss’
- **`end_time`** (*`str`*) – ‘yyyy-mm-dd hh:mm:ss’
- **`var`** (*`str`*) – selected variable

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