

# Package: readosense (via r-universe)

June 9, 2026

**Title** Imports Log and Data Files from Eosense Flux Chambers

**Version** 0.0.1

**Date** 2026-01-30

**Description** Imports log and data files from ``Eosense" ecosystem gas flux chambers into dataframes that can directly be used with ``fluxible" by Gaudard et al (2025) <doi:10.1111/2041-210X.70161>.

**License** GPL (>= 3)

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.3

**Imports** dplyr, lubridate, purrr, readr, rlang, tidyr

**Suggests** testthat (>= 3.0.0)

**Depends** R (>= 4.1)

**Config/testthat/edition** 3

**LazyData** true

**URL** <https://jogaudard.github.io/readosense/>

**BugReports** <https://github.com/jogaudard/readosense/issues>

**Config/pak/sysreqs** libicu-dev libx11-dev

**Repository** <https://jogaudard.r-universe.dev>

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**RemoteUrl** <https://github.com/jogaudard/readosense>

**RemoteRef** HEAD

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eo\_data *imports data files from Eosense chambers*

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**Description**

imports data files from Eosense chambers

**Usage**

```
eo_data(path)
```

**Arguments**

path                    location of the data files

**Value**

a dataframe with continuous measurement with timestamps

**Examples**

```
path <- system.file("extdata/ex_data", package = "readosense")
eo_data(path)
```

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eo\_env *extracts the environmental data from the logs*

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**Description**

extracts the environmental data from the logs

**Usage**

```
eo_env(logs)
```

**Arguments**

logs                    as provided by [eo\\_import\\_logs](#)

**Value**

a dataframe with the datetime, air temperature (celsius), and pressure (atm) for all chambers

**Examples**

```
path <- system.file("extdata/ex_logs", package = "readosense")
eo_import_logs(path) |>
eo_env()
```

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eo_import_logs	<i>imports log files from Eosense chambers</i>
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### Description

imports log files from Eosense chambers

### Usage

```
eo_import_logs(  
  path,  
  closed = c(1:3),  
  open = 0,  
  fully_closed = 1,  
  colnames = c("port", "valvestatus", "chamberstatus", "aux1", "aux2", "aux3", "aux4",  
    "aux5", "temperaturev", "pressure"),  
  nb_ports = 12  
)
```

### Arguments

path	folder in which the log files are located
closed	status numbers indicating chamber is closed
open	status numbers indicating chamber is open
fully_closed	status number indicating the chamber is fully closed
colnames	column names as defined in Eosense documentation
nb_ports	number of ports

### Value

a dataframe with all the information from the logs and measurement id

### Examples

```
path <- system.file("extdata/ex_logs", package = "readosense")  
eo_import_logs(path)
```

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eo_logs	<i>extracts the measurements metadata from the logs</i>
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**Description**

extracts the measurements metadata from the logs

**Usage**

```
eo_logs(logs, time_buffer = 300)
```

**Arguments**

logs            as provided by [eo\\_import\\_logs](#)  
time\_buffer    around the full closure of the chamber in seconds

**Value**

a dataframe with the measurement ids, port, and closing and opening time

**Examples**

```
path <- system.file("extdata/ex_logs", package = "readosense")  
eo_import_logs(path) |>  
eo_logs()
```

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