

# Package ‘unisensR’

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**Type** Package

**Title** Read 'Unisens' Data

**Version** 0.3.3

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**Description** Provides the ability to read 'Unisens' data into R. 'Unisens' is a universal data format for multi sensor data.

**Depends** R (>= 3.2.0)

**Imports** XML (>= 1.0.0), hexView, vroom

**License** LGPL

**URL** <http://unisens.org/>

**BugReports** <https://github.com/Unisens/unisensR/issues>

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.0.2

**Suggests** testthat

**NeedsCompilation** no

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## R topics documented:

<code>getUnisensSignalSampleCount</code> . . . . .	2
<code>readUnisensEventEntry</code> . . . . .	2

readUnisensSignalEntry . . . . .	3
readUnisensStartTime . . . . .	4
readUnisensValuesEntry . . . . .	4

<b>Index</b>	<b>5</b>
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getUnisensSignalSampleCount  
*Get Unisens Signal Sample Count*

---

### Description

Get Unisens Signal Sample Count

### Usage

```
getUnisensSignalSampleCount(unisensFolder, id)
```

### Arguments

unisensFolder	Unisens Folder
id	ID of the signal entry

### Value

Long

### Examples

```
unisensPath <- system.file('extdata/unisensExample', package = 'unisensR', mustWork = TRUE)
getUnisensSignalSampleCount(unisensPath, 'ecg.bin')
```

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readUnisensEventEntry *Read Unisens Event Entry*

---

### Description

Read Unisens Event Entry

### Usage

```
readUnisensEventEntry(unisensFolder, id)
```

### Arguments

unisensFolder	Unisens Folder
id	ID of the event entry.

**Value**

DataFrame.

**Examples**

```
unisensPath <- system.file('extdata/unisensExample', package = 'unisensR', mustWork = TRUE)
readUnisensEventEntry(unisensPath, 'qrs-trigger.csv')
```

---

readUnisensSignalEntry

*Read Unisens Signal Entry*

---

**Description**

Read Unisens Signal Entry

**Usage**

```
readUnisensSignalEntry(
  unisensFolder,
  id,
  startIndex = 1,
  endIndex = getUnisensSignalSampleCount(unisensFolder, id),
  readInChunks = FALSE,
  readChunkSize = 2^16
)
```

**Arguments**

unisensFolder	String containing path to Unisens folder.
id	String containing ID of the signal entry.
startIndex	Integer of the value-index on which the read process starts, default: 1.
endIndex	Integer of the value-index on which the read process ends, default: last Index of file.
readInChunks	Boolean determines if the reading process is done in chunks. This could be useful if you run into memory limits when reading big files. default: FALSE.
readChunkSize	Integer defining the size of chunks if chunk reading is enabled, defined in samples, default: 2^16.

**Value**

DataFrame.

**Examples**

```
unisensPath <- system.file('extdata/unisensExample', package = 'unisensR', mustWork = TRUE)
readUnisensSignalEntry(unisensPath, 'ecg.bin')
```

readUnisensStartTime *Read Unisens Start Time*

---

**Description**

Read Unisens Start Time

**Usage**

```
readUnisensStartTime(unisensFolder)
```

**Arguments**

unisensFolder Unisens Folder

**Value**

POSIXct unisens start time

**Examples**

```
unisensPath <- system.file('extdata/unisensExample', package = 'unisensR', mustWork = TRUE)
readUnisensStartTime(unisensPath)
```

---

readUnisensValuesEntry  
*Read Unisens Values Entry*

---

**Description**

Read Unisens Values Entry

**Usage**

```
readUnisensValuesEntry(unisensFolder, id)
```

**Arguments**

unisensFolder Unisens Folder  
id ID of the values entry.

**Value**

DataFrame.

**Examples**

```
unisensPath <- system.file('extdata/unisensExample', package = 'unisensR', mustWork = TRUE)
readUnisensValuesEntry(unisensPath, 'rr.csv')
```

# Index

`getUnisensSignalSampleCount`, [2](#)

`readUnisensEventEntry`, [2](#)

`readUnisensSignalEntry`, [3](#)

`readUnisensStartTime`, [4](#)

`readUnisensValuesEntry`, [4](#)