Package 'rzentra'

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Title Client for the 'ZENTRA Cloud' API		
Version 0.1.0		
Description Provides functionality to read settings, statuses and readings of weather stations from the 'ZENTRA Cloud' API https://zentracloud.com/api/v1/guide#APIGuidelines .		
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parse_port

parse a port

Description

parse a port

Usage

```
parse_port(port)
```

Arguments

port

port object as in zc_readings object

parse_timepoint

parse a timepoint

Description

parse a timepoint

Usage

```
parse_timepoint(timepoint)
```

Arguments

timepoint

timepoint object as in zc_readings object

parse_timeseries

parse a time series

Description

parse a time series

Usage

```
parse_timeseries(timeseries)
```

Arguments

timeseries

time series object

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zc_settings

retrieve settings of a device

Description

```
retrieve settings of a device
retrieve statuses of a device
retrieve readings of a device
```

Usage

```
zc_settings(token = NULL, sn = NULL, start_time = NULL, end_time = NULL)
zc_statuses(token = NULL, sn = NULL, start_time = NULL, end_time = NULL)
zc_readings(token = NULL, sn = NULL, start_time = NULL, start_mrid = NULL)
```

Arguments

token	(required) authorization token as returned by zc_token
sn	(required) the serial number for the device
start_time	Return data with timestamps greater or equal start_time. Specify start_time in UTC seconds, e.g. 1579474800)'
end_time	Return data with timestamps smaller or equal end_time. Specify end_time in UTC seconds, , e.g. 1579474800))'
start_mrid	Return data with mrids greater or equal start_mrid. This can be user to query data that has not been received yet, see guidelines.

Examples

```
## Not run:
zc_settings(token = "yourtoken",
    sn = "z6-00033",
    start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))
## End(Not run)
## Not run:
zc_statuses("yourtoken", sn = "z6-00033",
    start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))
## End(Not run)
## Not run:
zc_readings("yourtoken", sn = "z6-00033",
    start_time = as.numeric(as.POSIXct(Sys.Date(), origin = "1970-01-01")))
## End(Not run)
```

zc_token

zc_timeseries

parse readings into a long data.frame

Description

parse readings into a long data.frame

Usage

```
zc_timeseries(readings)
```

Arguments

readings object of class zc_readings as returned by zc_readings()

Examples

```
## Not run:
readings <- zc_readings("yourtoken",
    sn = "z6-00033",
    start_time = as.numeric(as.POSIXct(Sys.Date(),origin = "1970-01-01")))
zc_timeseries(readings)
## End(Not run)</pre>
```

zc_token

retrieve authentication token from zentracloud

Description

retrieve authentication token from zentracloud

Usage

```
zc_token(
  username = Sys.getenv("ZC_USERNAME"),
  password = Sys.getenv("ZC_PASSWORD")
)
```

Arguments

username username. Read by default from environment variable ZC_USERNAME password password. Read by default from environment variable ZC_PASSWORD

Value

api token

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Examples

```
## Not run:
token <- zc_token("xxxx", "yyyyy")
## End(Not run)</pre>
```

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