Wymates

A Module to use Breadboard Mates with Raspberry Pi Pico and Micropython

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Initialisation

Example:

> **import wymates**
> alternative: **from wymates import wy_mates**

create a object with:
- Com Port
- TX-Pin
- RX-Pin
- Resetpin (99 for Softreset)

For example we create a object for a BreadBoardMate connected to Com0, TX-Pin = 0, RX-Pin = 1 and we want to use Softreset:

> **mates = wymates.wy_mates(0, 0, 1, 99)**
> alternative: **mates = wy_mates(0,0,1,99)**

Commands

begin()

For a soft reset you can use the method begin()

Example:

mates.begin()

softreset

setBacklight(value)

Set the brightness of the backlight. The value (INT) ist between 0 and 15

Example:

mates.setBacklight(15)

#set the Backlight to highest brightness

setpage(PageNr)

Set the page to PageNr (Integer)

Example:

mates.setpage(2)

set the page 2 as active

getpage()

Gets the active page, returns a integer.

Example:

mates.getpage()

Returns the active page as integer

checkpages(showtime)

Gets the number of pages and shows them on the modules

Example:

mates.checkpages(1)

Returns the number of pages as integer and shows them for one second

LEDs

setLed(LEDNr, Value)

Switch the LED Nr on (value = 1) or off (value = 0)

Example:

Name	Type	Index	ID	Min	Max
Led0	LED	0x00	0x0000	0	1
Scope1	SCOPE	0x01	0x4D01	0	199
TextArea15	TEXT_AREA	0x0F	---	---	---

mates.setLed(0,1)

switch the LED Nr 0 on

mates.setLed(0,0)

switch the LED Nr 0 off

setMediaLed

In development

setLedDigits(Index, Value)

Set a value to Led Digits.

Example:

To activate Page11, run the library function `setPage(11)`:

```
mates.setPage(11); // Activate Page11
```

Here's a list of multiple state widgets in Page11 and their respective widget type, index and ID

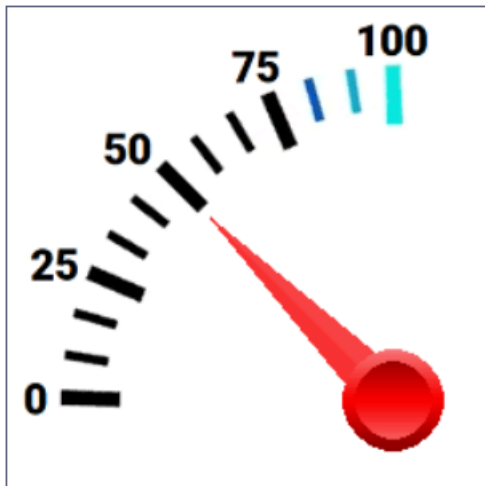| Name	Type	Index	ID	Min	Max
LedDigits16	LED_DIGITS	0x10	0x0510	0	9999
LedDigits17	LED_DIGITS	0x11	0x0511	0	9999

mates.setLedDigits(16,100)

Send the value 100 to the LED Digits Nr 16

Gauges

setMediaGaugeA/B/C/D(Index, Value)

Send a value to Media Gauge A, B, C or D

Example:

To activate Page5, run the library function `setPage(5)`:

```
mates.setPage(5); // Activate Page5
```

Here's a list of multiple state widgets in Page5 and their respective widget type, index and ID

Name	Type	Index	ID	Min	Max
MediaGaugeB2	MEDIA_GAUGE_B	0x02	0x4702	0	100

mates.setMediaGaugeB(2,50)

set the Gauge Nr 2 to value 50

setMediaThermometer(Index, Value)

Scope

setScope(Index, Value, max Value)

Text

setTextArea(Index, Text)

clearPrintArea

setPrintArea