Erriez RobotDyn Keypad 3x4 Analog library for Arduino 1.0.0

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RobotDyn library for Arduino

This is a RobotDyn Keypad 3x4 with analog output library for Arduino.

Hardware

Any Arduino / ESP8266 / ESP32 board with an ADC (Analog Digital Converter).

Pins

Keypad	Any Arduino board	WeMos D1 & R2 / Node MCU	WeMos LOLIN32
VCC	5V (or 3.3V)	3V3	3V3
GND	GND	GND	GND
OUT	A0 (ANALOG pin)	A0 (ADC0)	A0 = SVP (GPIO36)

Example

Arduino IDE | Examples | Erriez RobotDyn Keypad 3x4 Analog:

- PrintADC
- RobotDynKeypad3x4Analog

Documentation

- Online HTML
- Download PDF

Usage

Initialization

```
1 {c++}
2 #include <Arduino.h>
3 #include <ErriezRobotDynKeypad3x4Analog.h>
4
5 // Connect the keypad OUT pin to the ANALOG pin of an Arduino / ESP8266 / ESP32 board
6 #define KEYPAD_ANALOG_PIN A0
7
8 // Create keypad object
9 RobotDynKeypad3x4Analog keypad(KEYPAD_ANALOG_PIN);
```

Get buttons

```
1 {c++}
2 // Read buttons:
3 // -1: Buttons up
4 // 0..11: Button down
5 int keypadState = keypad.getButtons();
```

Library dependencies

· None.

Library installation

Please refer to the Wiki page.

Other Arduino Libraries and Sketches from Erriez

• Erriez Libraries and Sketches

Class Index

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Here are the classes, structs, unions and interfaces with brief descriptions:	
RobotDynKeypad3x4Analog	
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File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

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Class Documentation

4.1 RobotDynKeypad3x4Analog Class Reference

RobotDyn Keypad 3x4 Analog class.

#include <ErriezRobotDynKeypad3x4Analog.h>

Public Member Functions

- RobotDynKeypad3x4Analog (uint8_t analogPin, uint16_t maxAnalogValue=MAX_ANALOG_VALUE)
 Constructor LCDKeypadShield class.
- int getButtons ()

Read buttons from one analog pin.

Protected Attributes

- uint16_t _maxAnalogValue
 - Max analog value.
- uint8_t _analogPin

Analog pin number.

4.1.1 Detailed Description

RobotDyn Keypad 3x4 Analog class.

Definition at line 51 of file ErriezRobotDynKeypad3x4Analog.h.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 RobotDynKeypad3x4Analog::RobotDynKeypad3x4Analog (uint8_t analogPin, uint16_t maxAnalogValue = MAX_ANALOG_VALUE) [explicit]

Constructor LCDKeypadShield class.

8 Class Documentation

Parameters

analogPin	Analog pin number
maxAnalogValue	Maximum value of the ADC value may be slightly different. This may be compensated, but
	was not needed during testing with several different boards.

Definition at line 63 of file ErriezRobotDynKeypad3x4Analog.cpp.

4.1.3 Member Function Documentation

4.1.3.1 int RobotDynKeypad3x4Analog::getButtons ()

Read buttons from one analog pin.

Returns

-1: Button up 0..11: Button down

Definition at line 75 of file ErriezRobotDynKeypad3x4Analog.cpp.

The documentation for this class was generated from the following files:

- ErriezRobotDynKeypad3x4Analog.h
- ErriezRobotDynKeypad3x4Analog.cpp

File Documentation

5.1 ErriezRobotDynKeypad3x4Analog.cpp File Reference

RobotDyn Keypad 3x4 Analog library for Arduino.

#include "ErriezRobotDynKeypad3x4Analog.h"

5.1.1 Detailed Description

RobotDyn Keypad 3x4 Analog library for Arduino.

Source: https://github.com/Erriez/RobotDynKeypad3x4Analog Documentation: https←://erriez.github.io/RobotDynKeypad3x4Analog

5.2 ErriezRobotDynKeypad3x4Analog.h File Reference

RobotDyn Keypad 3x4 Analog library for Arduino.

```
#include <Arduino.h>
```

Classes

class RobotDynKeypad3x4Analog
 RobotDyn Keypad 3x4 Analog class.

5.2.1 Detailed Description

RobotDyn Keypad 3x4 Analog library for Arduino.

Source: https://github.com/Erriez/RobotDynKeypad3x4Analog Documentation: https←://erriez.github.io/RobotDynKeypad3x4Analog

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