EzloPi ADC POT Example

NOTE: Before moving into this example it is very necessary to check the device registration, provisioning and converting the ESP32 device into an EzloPi device along with knowledge of Ezlogic desktop app. All these information can be found in EzloPi User manual document.

1 ESP32 and POT circuitry setup.

For interfacing and using the ADC POT we need following components:

- 1. Potentiometer.
- 2. ESP32 device for converting it into EzloPi smart device
- 3. Power source for ESP32

The wiring diagram can be represented as:



2 Adding ADC POT to the device from Ezlopi app:

Note that before moving to add any device a new device should be added and accessible from Ezlo mobile app.

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File View Help	
Scan COM8 Close Configure WiFi Erase Device Flash Firm	nware Clear Logs
Device Name Type Sub type GPIOs	Reset Restart Factory Restore
	Registered devices
	Board Select
	ESP32 Generic \sim
Available UART Ports:	Device
COM8 Silicon Labs CP210x USB to UART Bridge Silicon Labs	Add Device
New selected port:	Remove Device
COM8 serial port is open. Json Data: {"cmd":1,"status":1,"v_sw":65794,"v_type":4000,"build":111,"v_idf":263169,"uptime": 1234,"build_date":1657623331,"boot_count":15,"boot_reason":2,"mac": 45647894,"uuid":"45525449-4649-4341-5445-2d2d2d2d2d2d0d","serial": 100006199,"ssid":"gp37","dev_type":1,"dev_flash":64256,"dev_free_flash":300,"dev_name":" "}	Configure Get Config Set Config
Connected to COM8 115200 No Parity 1 Stop bit.	

Device adding will be started with the button **Add device** in the UI as above. From the dropdown shown at 2 select Analog Input, furthermore we need to configure the sensor we are using i.e. For now it will be POT(Generic).

Choose Devi	?	\times
Analog Input		\sim
ОК	Cancel	

🖉 D ?	×
Device Name	
Analog In 1	
Device sub type	
POT : Generic	\sim
ADC input pin	
33	~
Resolution	
10-Bit	\sim
ОК	Cancel
1000	

As in the above snapshots:

- 1. Click on "Add Device".
- 2. Select Analog Input and a dialog box as shown above will appear.
- 3. In that write Device name.
- 4. Select Device sensor name in "Device SubType" field which in our case is POT.
- 5. Lastly select the Connected GPIO pin and Resolution.

After it is being configured, send configuration to ESP32, which will command add the ADC device to the esp32.

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1									
Sca	COM	18 ~	Close Config	ure WiFi E	rase Device	Flash Firn	nware	Clear Log	ļs
Dev 1 Analo	rice Name g In 1	Type Analog In	Sub type POT	GPIO:	5		Reset	Restart	
							Register	ed devices	~
							Board So ESP32 (elect Generic	~
Available	JART Ports:					^	Device		
COM8 Sili	con Labs CP21	LOx USB to UART Brid	lge Silicon Labs				Ad	ld Device	
New selec	ted port: tel(R) Active N	Management Techno	logy - SOL Intel				Rem	ove Device	
COM8 ser Json Data 1234,"buil 45647894 10000619 "}	ial port is oper : {"cmd":1,"st d_date":1657 ,"uuid":"4552 9,"ssid":"gp37	n. atus":1,"v_sw":6579 623331,"boot_count' 5449-4649-4341-544 ","dev_type":1,"dev_	4,"v_type":4000,"build ':15,"boot_reason":2," 5-2d2d2d2d2d0d","ser flash":64256,"dev_fre	":111,"v_idf":26 mac": ial": e_flash":300,"d	3169,"uptime": ev_name":"	~	Configura Ge Se	e et Config et Config	
Connected	to COM8 1	15200 No Parity 1	Stop bit.						

After configuration the display will look like above. Now Click on Set Config to send the configuration to the device. Which if successful will be displayed by a pop up as shown below.

