

BattSense

Version

Version 1.0.0

Information

This library is for using an ADC pin of the MCU as a battery voltage level reader in conjunction with a circuit to reduce the voltage to a certain ratio.

Usage

Constructor

```
BattSense(  
  int pin,  
  int pinEnable = -1,  
  float vRef = 3.3f,  
  float vRatio = 2.0f,  
  int numSamples = 1,  
  int resolution = 12,  
  int maxAdcValue = 4095  
);
```

Parameters:

- **int pin** = BattSense ADC pin
- **int pinEnable** = BattSense enable pin
- **float vRef** = ADC voltage reference
- **float vRatio** = Voltage Reduction Ratio
- **int numSamples** = Number of samples to acquire
- **int resolution** = ADC bit resolution
- **int maxAdcValue** = Maximum raw ADC value

Functions

Set Enable Level

```
bool setEnable(int level);
```

Parameters:

- **int level** = Digital voltage level to set on the BattSense enable pin

Returns:

- **bool true** = If BattSense enable pin is declared
- **bool false** = If BattSense enable pin is not declared

Get Battery Voltage

```
float getBatteryVoltage();
```

Returns:

- The **Battery Voltage** read by the BattSense pin in **float** data type.

Last Modified on 2020-09-30