com._604robotics.utils

Class CompensatingGyro

java.lang.Object
  edu.wpi.first.wpilibj.SensorBase
    edu.wpi.first.wpilibj.Gyro
      edu.wpi.first.wpilibj.GyroHax
        com._604robotics.utils.CompensatingGyro

All Implemented Interfaces:

IDevice, ISensor, PIDSource

```
public class CompensatingGyro
extends GyroHax
```

Gyro with manual compensation-setting support.

Author:

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Field Summary

Fields inherited from class edu.wpi.first.wpilibj.SensorBase

kAnalogChannels, kAnalogModules, kDigitalChannels, kPwmChannels, kRelayChannels, kSolenoidChannels, kSolenoidModules, kSystemClockTicksPerMicrosecond

Constructor Summary

Constructors

Constructor and Description
CompensatingGyro(**AnalogChannel** channel) Initializes a new CompensatingGyro on the specified AnalogChannel.
CompensatingGyro(int port) Initializes a new CompensatingGyro on the specified PWM port.
CompensatingGyro(int slot, int port) Initializes a new CompensatingGyro on the specified PWM port on the specified module port.

Method Summary

Methods

Modifier and Type	Method and Description
void	**setAccumulatorCenter**(int center) Manually sets the center for the accumulator.

Methods inherited from class edu.wpi.first.wpilibj.GyroHax

getAnalogChannel

Methods inherited from class edu.wpi.first.wpilibj.Gyro

free, getAngle, pidGet, reset, setSensitivity

Methods inherited from class edu.wpi.first.wpilibj.SensorBase

checkAnalogChannel, checkAnalogModule, checkDigitalChannel, checkDigitalModule, checkPWMChannel, checkPWMModule, checkRelayChannel, checkRelayModule, checkSolenoidChannel, checkSolenoidModule, getDefaultAnalogModule, getDefaultDigitalModule, getDefaultSolenoidModule, setDefaultAnalogModule, setDefaultDigitalModule, setDefaultSolenoidModule

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

CompensatingGyro

```
public CompensatingGyro(int port)
```

Initializes a new CompensatingGyro on the specified PWM port. Note that port must be 1 or 2!

Parameters:

`port` - The PWM port the gyro is plugged into. Must be 1 or 2!

CompensatingGyro

```
public CompensatingGyro(int slot,
                        int port)
```

Initializes a new CompensatingGyro on the specified PWM port on the specified module port. Note that port must be 1 or 2!

Parameters:

`slot` - The module slot the gyro is plugged into.

`port` - The PWM port the gyro is plugged into. Must be 1 or 2!

CompensatingGyro

```
public CompensatingGyro(AnalogChannel channel)
```

Initializes a new CompensatingGyro on the specified AnalogChannel. Note that port must be 1 or 2!

Parameters:

`channel` - The AnalogChannel the gyro is plugged into.

Method Detail

setAccumulatorCenter

```
public void setAccumulatorCenter(int center)
```

Manually sets the center for the accumulator.

Parameters:

`center` - The center to set.