

ControllerTwo

Main

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- SEND_TIME: int = 5
- MAC: String = D2
- fuelInPort: int = 2
- fuelOutPort: int = 3
- encoderPort: int = 19
- fuelInTemperaturePort: int = 4
- fuelOutTemperaturePort: int = 5
- engineAirInPort: int = 8
- exhaustGasesPort: int = 7
- waterCoolingPort: int = 8
- engineAirFlowPort: int = 9
- timeOnStart: unsigned long
- timeToSend: unsigned long
- lastTimeSended: unsigned long
- currentTime: unsigned long
- diffTime: unsigned long
- loopCounter: int
- previousEncoderValue: unsigned long
- lastEncoderValue: unsigned long
- previousFuelInValue: unsigned long
- lastFuelInValue: unsigned long
- previousFuelOutValue: unsigned long
- lastFuelOutValue: unsigned long
- frequencyReadSum: double
- frequencyReadsCount: int
- incomingFlag: char
- canSend: boolean = false
- packageCounter: unsigned long
- encoder: Encoder
- fluxometerFuelIn: Fluxometer
- fluxometerFuelOut: Fluxometer
- temperatureFuelIn: Thermocouple
- temperatureFuelOut: Thermocouple
- temperatureEngineAirIn: Thermocouple
- temperatureExhaustGases: Thermocouple
- temperatureWaterCooling: Thermocouple
- engineAirFlow: Pitot
- scale: HX711

- setup(): void
- loop(): void
- configureInterruptions(): void
- verifyStartCommand(): void
- myTimer(): bool
- sendPackage(): void
- fillDataInPackage(String): String
- calculesSpin(unsigned long, int): float
- encoderPulseCounter(): void
- fluxometerFuelInCounter(): void
- fluxometerFuelOutCounter(): void

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Encoder

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- encoderPort: int
- pulseCounter: unsigned long

+ Encoder(int)
+ getEncoderPort(): int
+ initPulseCounter(): void
+ getPulseCounter(): unsigned long
+ getSpinCounter(int): unsigned int
+ increasePulseCounter(): void
- setEncoderPort(int): void

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Fluxometer

```

- fluxometerPort: int
- pulseCounter: unsigned long

+ Fluxometer(int)
+ setFluxometerPort(int): void
+ getFluxometerPort(): int
+ initPulseCounter(): void
+ getPulseCounter(): unsigned long
+ increasePulseCounter(): void

```

Thermocouple

```

- port: int

+ Thermocouple(int)
+ setPort(int): void
+ getPort(): int
+ read(): int

```

Pitot

```

- port: int

+ Pitot(int)
+ setPort(int): void
+ getPort(): int
+ read(): int

```