

## TwoWire -BUFFER LENGTH : int -rxBuffer : unsigned char -rxBufferIndex : unsigned char -rxBufferLength: unsigned char -txAddress: unsigned char -txBuffer : unsigned char -txBufferIndex : unsigned char -transmitting : unsigned char +begin() : void +begin(in address : unsigned char) : void +begin(in address : int) : void +requestFrom(in address : unsigned char, in quantity : unsigned char, in sendStop : unsigned char) : unsigned char +requestFrom(): unsigned char +beginTransmission(in address: int): void +endTransmission(in sendStop: unsigned char): unsigned char +write(in data : unsigned char) : int +available(): int +read(): int +peek(): int +flush(): void +onReceiveService(inout \*inBytes : unsigned char, in numBytes : int) : void +onRequestService(): void +onReceive(inout (\*function) : void <unspecified> (int)) Import I2C\_Based\_Sensor - I2C ADDRESS #ReadRegister(in Address : int) : int #WriteRegister(in Address : int, in Value : int) : int

## CMPS03

-CMPS03 ADDRS : Byte

-CMPS03 8BitReadBearing : Byte -CMPS03\_16BitReadBearing : Byte

-8BitOffset : int

16bitOffset: int

+CMPS03(in Offset8bit : int, in Offset16bit : int)

+SetBearingOffset8Bit(in Offset : int) : void +SetBearingOffset16Bit(in Offset : int) : void

+ReadBearing8BitMode(): int

+ReadBearing16BitMode(): int

## MMA7455

-MMA7455 I2C ADDRESS : Byte -MMA7455\_CONTROL\_MODE : Byte -MMA7455\_2G\_SENSITIVITY : Byte

-MMA7455 4G SENSITIVITY: Byte

-MMA7455 8G SENSITIVITY : Byte

-READ X AXIS 8BIT : Byte -READ\_Y\_AXIS\_8BIT : Byte

-READ\_Z\_AXIS\_8BIT : Byte

-\_X\_AxisOffset : int

\_Y\_AxisOffset : int

-\_Z\_AxisOffset : int

+MMA7455()

+InitSensor(in Sensitivity: int, in XOffset: int, in YOffset: int, in ZOffset: int): void

+SetSensitivity(in sensitivity: int): void

+SetXOffset(in XOffset : int) : void +SetYOffset(in YOffset : int) : void

+SetZOffset(in ZOffset : int) : void

+GetXOffset(): int

+GetYOffset(): int

+GetZOffset(): int

+ReadXAxis(): char

+ReadYAxis(): char +ReadZAxis(): char



## TwoWayTelecommand

NewIncomingTransmissionBuffer: String NewOutcomingTransmissionBuffer: String

InputBufferIterator : int InputBufferSize : int SendPacketOn : bool -BUZZER\_FLAG : char VIBRATE FLAG : char -MAGNETOMETER\_FLAG : char ACCELEROMETER\_X\_FLAG : char -ACCELEROMETER Y FLAG: char

-BUTTON\_FLAG : char -END PACKET : char PROTOCOL\_TEST : char

TOOGLE\_PACKET\_TRANSMISSION : char -PROTOCOL\_TEST\_RESPONSE : char

+TwoWayTelecommand(in InputBufferLen : int)

+FeedIncomingTransmission(in NewChar : char, inout \*VibrateMilis : int, inout \*BuzzMilisl : int) : void

+ProtocolTest(in TimeoutMilis : int) : short

+FeedNewSensorData(in AccelerometerX: short, in AccelerometerY: short, in MagnetometerData: short, in ButtA: char, in ButtB: char, in ButtC: char): void

+OutPacket() : String +IsOutPacketOn(): bool

#ProccessInput(inout \*VibrateMilis : int, inout \*BuzzMilis : int) : void

#SetInputBufferSize(in Len: int): void

-ClearOutputBuffer(): void

-ClearInputBuffer(): void



