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/*
 * Ultrasonic.h
 *
 * Library for Ultrasonic Ranging Module in a minimalist way
 *
 */

#ifndef Ultrasonic_h
#define Ultrasonic_h

/*
 * Values of divisors
 */

#define CM 28
#define INC 71

class Ultrasonic {
public:
    Ultrasonic(uint8_t sigPin) : Ultrasonic(sigPin, sigPin) {};
    Ultrasonic(uint8_t trigPin, uint8_t echoPin, unsigned long timeOut = 20000UL);
    unsigned int read(uint8_t und = CM);
    unsigned int distanceRead(uint8_t und = CM) __attribute__((deprecated ("This method is deprecated, use read() instead.")));
    void setTimeout(unsigned long timeOut) {timeout = timeOut;}
    void setMaxDistance(unsigned long dist) {timeout = dist*CM*2;}

private:
    uint8_t trig;
    uint8_t echo;
    boolean threePins = false;

```

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    unsigned long previousMicros;  
    unsigned long timeout;  
    unsigned int timing();  
};  
  
#endif // Ultrasonic_h
```