In der gedruckten Ausgabe war leider kein Platz mehr für den Abdruck des Quelltextes der Arduino-Konfiguration. Diese folgt daher als Ergänzung im nachstehenden Kasten.

Listing Settings

//User configuration section:
//Please uncomment only one of each of the following MotorTypes, SensorTypes and SerialPort types:
const int MotorType = PWDIR; //Please uncomment this line for the LMD18200T DC motor driver.
const int MotorType = FWDREV; //Please uncomment this line for the L298N DC motor driver.
const int MotorType = ACMOTR; //Please uncomment this line for the triac AC motor driver.
const int SensorType = LSM303D; //Please uncomment this line to use the LSM303D sensor.
const int SensorType = LSM303DLHC; //Please uncomment this line to use the LSM303DLHC sensor.
#define SerialPort Serial           //Please uncomment this line to use the USB port.
#define SerialPort Serial1         //Please uncomment this line to use the TTL port.
#define WINDDOWN LIMIT 450         //Sets the total number of degrees azimuth rotation in any direction before resetting to zero
//Motor pins - Don’t change
const int azFwdPin = 5;
const int azRevPin = 6;
const int elFwdPin = 9;
const int elRevPin = 10;
//Speaker pins
const int gndPin = 14; //Makes a convenient ground pin adjacent to the speaker pin
const int spkPin = 16; //Attach a piezo buzzer to this pin. It beeps when new calibration data arrives.
//Motor drive gains. These set the amount of motor drive close to the set point
const int azGain = 25; //Azimuth motor gain
const int elGain = 25; //Elevation motor gain
//Filter constants
const float azAlpha = 0.5; //Alpha value for AZ filter. Decrease to slow response time and reduce motor dither.
const float elAlpha = 0.5; //Alpha value for EL motor filter. Decrease to slow response time and reduce motor dither.
const float lsmAlpha = 0.05; //Alpha value for sensor filter. Decrease to slow response time and ease calibration process.