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The ADXL345 is an integrated circuit that measures acceleration in 3 axes. Like the majority of the sensors, this device comes with a favored connection plate to use and can be used through SPI or I2C. This tutorial aims to show how you can interconnect this accelermeter with an Arduino. INTRODUCTION TO ADXL345 Actually, ADXL345 is capable of measuring acceleration forces in the x, and y z axes. The acceleration force is the force that makes an object move. If an object is at rest, only the strength of gravity acts on it. Therefore, the ADXL345 gives acceleration forces in G units, being G the acceleration due to gravity equal to 9.8 m/s2. The adxl345 can measure the acceleration up to ã‚ã ± 2g with the option of changing the maximum to ã‚ã ± 4g, ã‚ã ± 8g and ã‚ã ± 16g. Acceleration forces can be static (due iodically) or dynamic (due to movement and gravity). You can access a more deep vision of the ADXL345 through its data sheet: [wpdm_package id = ã ¢ â € 3554ã ¢ â € 2] This tutorial will focus on the adxl345 breakdown plate as shown : If you have a different plate, make sure that the sketches of this tutorial will continue to run as long as the correct wiring ID is followed. [The_ad = ã ¢ â|3059ã ¢ â|3] Configuring Arduino Ide in the first place, we need the library Adxl345 Arduino. Open Arduino Ide (see. 1.8.9) And go to tools> Manage libraries now the library administrator appears. In the Bâ°Squeda field, write ã "adxl345â" adxl345, press Enter and appear the library. We also need to install the unified library sensor: using the adxl345 with arduino after the installation of the libraries, go to files> Example> adefruit adxl345> sensortest. The example sketch is as shown: #include #include #include / * assigns an iginal id at this sensor at the same time * / adefruit_adxl345_unified accel = void displaySensorDetails(void) { sensor_t sensor; accel.getSensor(&sensor); Serial.println("------------------------------------"); Serial.print ("Sensor: "); "); Serial.print ("Driver Ver: "); Serial.println(sensor.version); Serial.print ("Unique ID: "); Serial.println(sensor.sensor_id); Serial.print ("Max Value: "); Serial.print(sensor.max_value); Serial.println(" m/s^2"); Serial.print ("Min Value: "); Serial.print(sensor.min_value); Serial.println(" m/s^2"); Serial.print ("Resolution: "); Serial.print(sensor.resolution); Serial.println(" m/s^2"); Serial.println("------------------------------------"); Serial.println(""); delay(500); } void displayDataRate(void) { Serial.print ("Data Rate: "); switch(accel.getDataRate()) { case ADXL345_DATARATE_3200_HZ: Serial.print ("3200 "); break; case ADXL345_DATARATE_1600_HZ: Serial.print ("1600 "); break; case ADXL345_DATARATE_800_HZ: Serial.print ("800 "); break; case ADXL345_DATARATE_400_HZ: Serial.print ("400 "); break; case ADXL345_DATARATE_200_HZ: Serial.print ("200 "); break; case ADXL345_DATARATE_100_HZ: Serial.print ("100 "); break; case ADXL345_DATARATE_50_HZ: Serial.print ("50 "); break; case ADXL345_DATARATE_25_HZ: S while (!Serial); // para Leonardo/Micro/Zero #endif Serial.begin(9600); Serial.println("Prueba del acelerÃ³metro"); Serial.println(""); /* Inicializa el sensor */ if(!accel.begin()) { /* Hubo un problema al detectar el ADXL345 ... comprueba tus conexiones */ Serial.println("Ooops, no se detectÃ³ el ADXL345 ... Check your wiring!"); while(1); } /* Set the range to whatever is appropriate for your project */ accel.setRange(ADXL345_RANGE_16_G); // accel.setRange(ADXL345_RANGE_8_G); // accel.setRange(ADXL345_RANGE_4_G); // accel.setRange(ADXL345_RANGE_2_G); /* Display some basic information on this sensor */ displaySensorDetails(); /* Display additional settings (outside the scope of sensor_t) */ displayDataRate(); displayRange(); Serial.println(""); } void loop(void) { /* Get a new sensor event */ sensors_event_t event; accel.getEvent(&event); /* Display the results (acceleration is measured in m/s^2) */ Serial.print("X: "); Serial.print(event.acceleration.x); Serial.print(" "); Serial.print("Y: "); Serial.print(event.acceleration.y); Serial.print(" "); Serial.print("Z: "); Serial.print(event.acceleration.z); Serial.print(" ");Serial.println("m/s^2 "); delay(500); } 1234567891011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697071727374757677787980818 ;j""(nltnirp.laireS ;)"tseT retemorelecCA"(nltnirp.laireS ;)0069(nigeb.laireS fidne#oreZ/orciM/odranoeL rof // ;)laireS!(elihw 6628PSE fednh#{)diov(putes diov{ ;)"g "(nltnirp.laireS } ;kaerb ;)" ??"(tnirp.laireS ;tlufed ;kaerb ;)" 2"(tnirp.laireS ;G_2_EGNAR_543LXDA esac ;kaerb ;)" 4"(tnirp.laireS ;G_4_EGNAR_543LXDA esac ;kaerb ;)" 8"(tnirp.laireS ;G_8_EGNAR_543LXDA esac ;kaerb ;)" 61"(tnirp.laireS ;G_61_EGNAR_543LXDA esac { })(egnaRteg.lecca(hctiws ;)" /+ -egnaR"(tnirp.laireS {)diov(egnaRyalpsid diov} ;)"zH "(nltnirp.laireS } ;kaerb ;)" ????"(tnirp.laireS ;tlufed ;kaerb ;)" 01.0"(tnirp.laireS ;ZH_01_0_ETARATAD_543LXDA esac ;kaerb ;)" 02.0"(tnirp.laireS ;ZH_02_0_ETARATAD_543LXDA esac ;kaerb ;)" 93.0"(tnirp.laireS ;ZH_93_0_ETARATAD_543LXDA esac ;kaerb ;)" 87.0"(tnirp.laireS ;ZH_87_0_ETARATAD_543LXDA esac ;kaerb ;)" 65.1"(tnirp.laireS ;ZH_65_1_ETARATAD_543LXDA esac ;kaerb ;)" 31.3"(tnirp.laireS ;ZH_31_3_ETARATAD_543LXDA esac ;kaerb ;)" 52.6"(tnirp.laireS ;ZH52_6_ETARATAD_543LXDA esac ;kaerb ;)" 5.21"(tnirp.laireS ;ZH_5_21_ETARATAD_543LXDA esac ;kaerb ;)" 52"(tnirp.laireS ;ZH_52_ETARATAD_543LXDA esac ;kaerb ;)" 05"(tnirp.laireS ;ZH_05_ETARATAD_543LXDA esac ;kaerb ;)" 001"(tnirp.laireS ;ZH_001_ETARATAD_543LXDA esac ;kaerb ;)" 002"(tnirp.laireS ;ZH_002_ETARATAD_543LXDA esac ;kaerb ;)" 004"(tnirp.laireS ;ZH_004_ETARATAD_543LXDA esac ;kaerb ;)" 008"(tnirp.laireS ;ZH_008_ETARATAD_543LXDA esac ;kaerb ;)" 0061"(tnirp.laireS ;ZH_0061_ETARATAD_543LXDA esac ;kaerb ;)" 0023"(tnirp.laireS ;ZH_0023_ETARATAD_543LXDA esac {)(etaRataDteg.lecca(hctiws ;)" -etaR ataD"(tnirp.laireS {)diov(etaRataDyalpsid diov};)005(yaled ;)""(nltnirp.laireS ;)"----------"(nltnirp.laireS ;)"2^s/m "(nltnirp.laireS ;)noituloser.rosnes(tnirp.laireS ;)" :noituloseR"(tnirp.laireS ;)"2^s/m "(nltnirp.laireS ;)eulav_nim.rosnes(tnirp.laireS ;)" :eulaV niM"(tnirp.laireS ;)"2^s/m "(nltnirp.laireS ;)eulav_xam.rosnes(tnirp.laireS ;)" :eulaV xaM"(tnirp.laireS tnirp.laireS ;)" :eulav nim"(Tnirp.laires ;)"2^s/M "(Nltnirp.laires ;)eulav_xam.Ranneses(tnirp.laires ;)" :eulav xam"(tnirp.laires ;)di_roses.rosnes nltnirp.laires ;)" :di euqinu"(Tnirp.laires ;)noisrev.Ransnes(nltirp.laires ;)" :REV REVIRD"(Tnirp.laires ;)eman.Rosenes(nltnirp.). 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Detlxda ,spooo on ,spooo on ,spooo on , Kcehc ... 543lxda eht gnitceted mallep that saw ereht */ {) (Nigeb.lecca!(fi /* Rosnes Eht Ehlaitininn osac ;osnacsed ;)"52"(tnirp.laireS ;ZH_52_ETARATAD_543LXDA osac ;osnacsed ;)"05"(tnirp.laireS ;ZH_05_ETARATAD_543LXDA osac ;osnacsed ;)"001"(tnirp.laireS ;ZH_001_ETARATAD_543LXDA osac ;osnacsed ;)"002"(tnirp.laireS ;ZH_002_ETARATAD_543LXDA osac ;osnacsed ;)"004"(tnirp.laireS ;ZH_004_ETARATAD_543LXDA osac ;osnacsed ;)"008"(tnirp.laireS ;ZH_008_ETARATAD_543LXDA osac ;osnacsed ;)"0061"(tnirp.laireS ;ZH_0061_ETARATAD_543LXDA osac ;osnacsed ;)"0023"(tnirp.laires ;zh_0023_etaratAD_543LXDA esac{)(etaratADteg.leca(hctiws ;)" :sotad ed dadicolevV"(.tnirP.tnirP.tnirP.tnirP.laireS {)diov(etaratADyalpsID diov :)(etaratADteg se n³Ãicnuf etneiugis aL LXDA sotad ed abeurP ortem³ÃrelecC®Ã¸Ã¢Ãr2^s/m 19.651 :rolav nim2^s/m 19.651- :rolaV XAXAM 54321 :ELIUQNUDI 1 :rev REVIRD543LXDA :rosneS ortem³ÃrelecC®Ã¸Ã¢Ãr 2^s/m 19.651 :rolaV nim 2^s/m 19.651- :omixiÃm rolaV 54321 :ocin9Â DI 1 :reV rodalortnoC 543LXDA :rosneS :eires ne rotinom le ne adilas al ed etrap atse ed elbasnopser se n³Ãicnuf atsE .543LXDA le erbos n³Ãicamrofni arto y n³Ãiculoser ,sominÃm y somixiÃm serolav ,rosnes ed opit le artseum n³Ãicnuf atsE];)005(osarter ;)""(nltnirp.laireS ;)"----------"(nltnirp.laireS ;)"2^s/m"(nltnirp.laireS ;)noituloser.rosnes(tnirp.laireS ;)":n³ÃiculoseR"(tnirp.laireS ;)"2^s/m"(nltnirp.laireS ;)eulav_nim.rosnes(tnirp.laireS ;)":eulaV niM"(tnirp.laireS ;)"2^s/m"(nltnirp.laireS ;)eulav_xam.rosnes(tnirp.laireS ;)":omixiÃm rolaV"(tnirp.laireS ;)di_rosnes.rosnes(nltnirp.laireS ;)":ocin9Â DI"(tnirp.laireS ;)noisrev.rosnes(nltnirp.laireS ;)":rev revirD"(tnirp.laireS ;)eman.rosnes(nltnirp.laireS ;)":rosneS"(tnirp.laireS ;)"----------"(nltnirp.laireS ;)rosnes y(rosneSteg.leccA ;rosnes t_rosnes{)diov(slieatdrosneSyalpsid diov } ;)005(osarter ;)""(nltnirp.laireS ;)"----------"(nltnirp.laireS ;)"2^s/m"(nltnirp.laireS ;)noituloser.rosnes(tnirp.laireS ;)":n³ÃiculoseR"(tnirp.laireS ;)"2^s/m"(nltnirp.laireS osac osac ;osnacsed ;)"5.21"(tnirp.laires ed dadicolev al ed n³Ãicceles al erbos ecid son sotad ed ajoh aL .)zH 0023(odipiÃr siÃm le atsah)zH 01(sotnel siÃm sol edsed selbazilitu sotad ed sasat sal adnirb son n©Ãibmat otsE .543LXDA led lautca sotad ed asat al evleuved n³Ãicnuf atsE)ªÃ ¬ã 9503 ¬ã ¢Ã = di da_eht[} ;)"zH"(nltnirp.laireS } ;osnacsed ;)"????"(tnirp.laires :odanimretederp ;osnacsed ;)"01.0"(tnirp.laires :ZH_01_0_ETARATAD_543LXDA osac ;osnacsed ;)"02.0"(tnirp.laireS :ZH_02_0_ETARATAD_543LXDA osac ;osnacsed ;)"93.0"(tnirp.laireS :ZH_93_0_ETARATAD_543LXDA osac ;osnacsed ;)"87.0"(tnirp.laireS :ZH_87_0_ETARATAD_543LXDA osac ;osnacsed ;)"65.1"(tnirp.laires :ZH_65_1_ETARATAD_543LXDA osac ;osnacsed ;)"31.3"(tnirp.laires :ZH_31_3_ETARATAD_543LXDA osac ;osnacsed ;)"52.6"(tnirp.laireS :ZH52_6_ETARATAD_543LXDA osac ;osnacsed ;)"5.21"(tnirp.laires :ZH_5_21_ETARATAD_543LXDA osac ;osnacsed ;)"52"(tnirp.laireS :ZH_52_ETARATAD_543LXDA osac ;osnacsed ;)"05"(tnirp.laireS :ZH_05_ETARATAD_543LXDA osac ;osnacsed ;)"001"(tnirp.laireS :ZH_001_ETARATAD_543LXDA osac ;osnacsed ;)"002"(tnirp.laires :ZH_002_ETARATAD_543LXDA osac ;osnacsed ;)"004"(tnirp.laireS :ZH_004_ETARATAD_543LXDA osac ;osnacsed ;)"008"(tnirp.laires :ZH_008_ETARATAD_543LXDA osac ;osnacsed ;)"0061"(tnirp.laireS :ZH_0061_ETARATAD_543LXDA osac ;osnacsed ;)"0023"(tnirp.laires :zh_0023_etaratAD_543LXDA esac{)(etaratADteg.leca(hctiws ;)" :diov diov 069585756555453525155594444444444342414049333373353433323130392827262524232221202918171615141312111019876543 21 } ;)"zH"(nltnirp.laireS } ;osnacsed ;)"????"(tnirp.laires :odanimretederp ;osnacsed ;)"01.0"(tnirp.laires :ZH_01_0_ETARATAD_543LXDA osac ;osnacsed ;)"02.0"(tnirp.laireS :ZH_02_0_ETARATAD_543LXDA osac ;osnacsed ;)"93.0"(tnirp.laireS :ZH_93_0_ETARATAD_543LXDA osac ;osnacsed ;)"87.0"(tnirp.laireS :ZH_87_0_ETARATAD_543LXDA osac ;osnacsed ;)"65.1"(tnirp.laires :ZH_65_1_ETARATAD_543LXDA osac ;osnacsed ;)"31.3"(tnirp.laires :ZH_31_3_ETARATAD_543LXDA osac ;osnacsed ;)"52.6"(tnirp.laireS an output data rate must be selected that is appropriate for the Selected protocol and frequency. The selection of an output data speed too high with a low communication speed results in samples. This means that speed selection depends on the speed of the microcontroller device. The Arduino one admits the high speed I2C mode that has a speed of 3.4 MHz, so it will not have problems at more high data. To change data speed, use SetDatarateratare function (datarrate). The datarate can be any of the following: ADXL345_DATARATE_3200_HZ ADXL345_DATARATE_1600_HZ ADXL345_DATARATE_800_HZ ADXL345_DATARATE_400_HZ ADXL345_DATARATE_200_HZ ADXL345_DATARATE_100_HZ ADXL345_DATARATE_50_HZ ADXL345_DATARATE_25_HZ ADXL345_DATARATE_12_5_HZ ADXL345_DATARATE_6_25HZ ADXL345_DATARATE_3_13_HZ ADXL345_DATARATE_1_56_HZ ADXL345_DATARATE_0_78_HZ ADXL345_DATARATE_0_39_HZ ADXL345_DATARATE_0_20_HZ ADXL345_DATARATE_0_10_HZ ADXL345_DATARATE_3200_HZADXL345_DATARATE_1600_HZADXL345_DATARATE_800_HZADXL345_DATARATE_400_HZADXL345_DATARATE_200_HZADXL345_DATARATE_100_HZADXL345_DATARATE_50_HZADXL345_DATARATE_25_HZADXL345_DATARATE_12_5_HZADXL345_DATARATE_6_25HZADXL345_DATARATE_3_13_HZADXL345_DATARATE_1_56_HZADXL345_DATARATE_0_78_HZADXL345_DATARATE_0_39_HZADXL345_DATARATE_0_20_HZADXL345_DATARATE_0_10_HZ For example, to change the data rate to 400 Hz, place this inside setup(), after accel.begin( ): acce. Accel.setdatrate (adxl345_datrate_400_hz); Range value The last function is the displayrange function (): void displayrange (void) { serial.print ("range: +/-"); Switch (acce. break; Adxl345_range_8_g: serial.print ("8"); break; Adxl345_range_4_g: serial.print ("4"); break; ADXL345_REGE_2_G: serial.print ("2"); break; predetermined: serial.print ("??"); break; } Serial.println ("g"); } 1234567891011121314151617181920212232 4 Void (void) {serial.print ("range: +/-"); switch (acel.getRange () {case ADXL345_RANGE_16_G: serial.print ("16"); rest; rest; woleb !woleb tnammoc a bord yeldnik, lufplen lyrotut, sibt dnif uoy ffl ytivarg dna ecrove deilpa aht ut eud noitarlecca aht evig liw tl dna noitcerid niatrec a ni rosnes eht evoM .daer won si eulav y orez-non a dna ,lufplea y iht ivarg tsniaga gniog won si rosnes eht ʔ na nwohs sa htlIT [AIA9503AAA-EvATA ew echnah, sixa x h ni ytivarg tsniaga gniog won si rosnes ehna na na nwohs sa draob eht tlIT ,sexa z eht rav g ot lauqe eulav a dna, sexa y y y nx htop ni seulav (ore tsomla ro) orz tcepxe ew, derutcip sa talf decalp rosnes ehtiw dont tser tA .deilppa si taheceht daer lliw ti neht.gnivom si si si fil .ti no gnitca ecitaroitaroitaroey, no senitrsa .lert, licru .lert .rinar .lert .lici xda7ht, denoitnem@sA tuptuO7htGninialpxE:hctex7tFoPtuo7hGniwohsOediv9aLaZaAaEmierehI oediV noitartsnomeD.)(putes edisni noitcnuf) (nigeb.lecht retfsi eevoba eht tahtErusEkaM ;)G_2_EGNAR_543LXDA(egnaRtes.lecca253EGA43GR:EGAot egnar, ehsegnahc, gniwollof eht, elpmaxe, roF, g_2_EGNAR_543LXDAG_4_EGNAR_543LXDAG_8_EGNAR_543LXDAG_61_EGNAR_543LXDA G_2_EGNAR_543LXDA G_4_EGNAR_543LXDA G_8_EGNAR_543LXDA_LXEB_143LGNAR_NG: egnar ehT .noitcnuf(egnar(egnaRtes ehesu,egnar ehegnac oT .2s/m 8.651Arm±Altelaviuqe si hcihw g61Arm±LlhsiUulav tluafed ehT.)8.9 * 2(2s/m 6.91EarRitesOtPU noitarectCeted wonNac retemorelecca eht ,detcelesG2Armijf543LXDA NSTR) irp.laireS} ;kaerb ;)"?"(tnirp.laireS :tlufed;kaerb;)" 2"(tnirp.laireS :G_2_EGNAR_543LXDA: esac;kaerb;)" 4"(tnirp.laireS :G_4_EGNAR_543LXDA esac;kaerb;)" 8"(tnirp.laireS :G_8_EGNAR_543LXDA

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