

LamaPLC: Sensors

The page below lists sensors compatible with microcontrollers such as Arduino, Raspberry Pi Nano, ESP32, and ESP8266, as they operate at 3.3V/5V signal levels.



The search is easier in the [summarized abbreviation index](#), depending on the type designation.

Temperature, Humidity, Air-pressure, Gas, Air-quality Sensors and Module

 <p>AHT10 Modul Temperature, Humidity + Arduino example code</p>	 <p>ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module</p>
 <p>AHT20/BMP280 Modul Temperature, Humidity, Air pressure + Arduino example code</p>	 <p>MAX31865 RTD to Digital Converter - PT100/PT1000 Platine</p>
 <p>PTA8C04 4-channel PT100 Modbus Modul with Modbus RTU + Holding Registers Description</p>	 <p>NT18B07 7 Kanal RS485 Temperature Sensors with Modbus RTU + Holding Registers Description</p>
 <p>DS18B20 1-Wire Digital Thermometer</p>	 <p>BMP/BME Bosch Temperature/Humidity/Pressure sensors with I²C communication (BME280, BME680, BMP180, BMP280, ...)</p>
 <p>DHT Temperature / Humidity sensors with 1- wire / I²C communication (DHT11, DHT20, DHT22/AM2302, ...)</p>	 <p>DPS Infineon Temperature/Pressure sensors with I²C communication (DPS310)</p>
 <p>D6T Omron Non-Contact Thermal Sensors with I²C communication (D6T-32L, D6T-44L, D6T-8L, D6T-1A, ...)</p>	 <p>GM MEMS Gas-sensors (GM-102b, GM-302b, GM-502b, GM-702b, ...)</p>



 <p>ENS ScioSense Multi-gas sensors with I²C communication (ENS-160)</p>	 <p>HTU TE Connectivity temperature/humidity sensors with I²C communication (HTU-21)</p>
 <p>MQ Winsen Gas-sensors (MQ-2, MQ-3, MQ-4, MQ-5, MQ-6, MQ-7, MQ-8, MQ-9, MQ-131, MQ-135, MQ-137, ...)</p>	 <p>SGP SGP Sensirion TVOC/VOC sensors with I²C communication (SGP30, SGP40, SGP41, ...)</p>
 <p>SHT Sensirion Temperature/humidity sensor with I²C communication (SHT20, SHT21, SHT25, SHT30, SHT31, SHT35, SHT40, GY21, ...)</p>	 <p>HDC Texas Instruments Temperature/humidity sensors with I²C communication (HDC-1080)</p>
 <p>CJMCU-6814 combined gas sensor module for CO, NO₂, NH₃ (MICS-6814)</p>	 <p>MH-Z19 series of NDIR CO₂ sensors (MH-Z19B, MH-Z19C, MH-Z19D, MH-Z19E)</p>
 <p>CJMCU-811 CCS811 Gas Sensor (VOCs TVOC CO₂)</p>	 <p>Sensio SCD CO₂ measurement module (SCD30)</p>
 <p>Sensio SCD CO₂ measurement module (SCD40, SCD41)</p>	 <p>MLX90614 (GY-906) infrared non-contact thermometer</p>

Distance measurement, Gesture Recognition, Optical flow, Motion

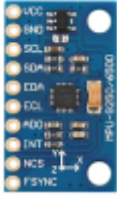
 <p>HC-SR04 Ultrasonic Sensor Module</p>	 <p>VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I²C communication (VL53L0X, VL53L1X, VL53L0/1XV2, GY-530, ...)</p>
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 <p>VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I²C communication</p>	 <p>TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I²C communication (TOF050C, TOF200C, TOF400C, ...)</p>
 <p>PAJ Pixart gesture recognition sensors/module with I²C communication (PAJ7620U2, GY-PAJ7620)</p>	 <p>APDS Avago ALS and proximity detection sensors with I²C communication (APDS-9900, APDS-9930, APDS-9960)</p>
 <p>M01 V0.4 Laser ranging sensor with UART communication</p>	 <p>A0221AU/A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication</p>
 <p>Waveshare TOF Laser Range Sensor with UART / I²C communication</p>	 <p>RD-XX Ai-Thinker Radar Module with UART communication (RD-01, RD-03, RD-03D, ...)</p>
 <p>RCWL Microwave radar sensor (RCWL-0516)</p>	 <p>CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication</p>
 <p>PIR sensors (HC-SR501, HC-SR505, AM-312, EKMB/EKMC)</p>	 <p>LM393 sensor (FC-03, HC-89) Infrared Speed Sensor Module</p>

Light, Ambient light, Proximity

 <p>CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I²C communication</p>	 <p>LM393 (KY-026) Flame Sensor (IR) Module</p>
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Motion detection, Magnetometer, Magnetic angle sensors, 6DOF, Vibration

 <p>MPU-9250/6500 9-axis motion detection module</p>	 <p>MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device</p>
 <p>Magnetic angle sensors (AS5047P, AS5600, MT6701, MT6816, MT6835, TLE5012B)</p>	 <p>GY-511 6DOF sensor module</p>
 <p>Vibration sensors (GXFM0459, LDTM-028K)</p>	



Signal Converters, Shift Registers, I/O_Expanders

 <p>PCA9306 I²C Voltage Level Translator</p>	 <p>CJMCU-164 SN74HC164D 8-bit Shift Register Module</p>
 <p>MAX485 TTL to RS485 Module</p>	 <p>TCA9548A (HW617); Low-Voltage 8-Channel I²C Switch Module</p>
 <p>MCP23017 / MCP23S17 (CJMCU-2317) 16-Bit I/O Expander with Serial Interface I²C / SPI</p>	 <p>SC16IS750 / SC16IS752 One or two serial (UART) ports from microcontroller via I²C or SPI communication (CJMCU-750, CJMCU-752)</p>
 <p>Texas Instruments ADCs Delta-sigma multi-channel Analog Converters with SPI communication (ADS111x, ADS12xx)</p>	 <p>TXS0108E (HW-0108) 8-channel, bidirectional 5V-3.3V logic level converter</p>
 <p>PCF857x I/O Expander chip/modul with I²C communication (PCF8574, PCF8574A, PCF8575)</p>	



Amplifiers, DC-DC converters, PWM signal converters

 <p>XY_MOS MOS FET Drive Module 400W Support PWM Controller</p>	 <p>CJMCU-8221 Analog Devices Precision instrumentation amplifier module</p>
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Weight sensors

 <p>YR-3180 YR-3180 - Weight sensor module with UART or Modbus communication + Modbus map</p>	 <p>HX711 24-bit analog-to-digital converter (ADC)</p>
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Energy meters (EM)

 <p>Eastron SDM 630 3-phase Energy Meter with Modbus communication + Modbus map</p>	 <p>Eastron SDM 230 1-phase Energy Meter with Modbus communication + Modbus map</p>
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Energy harvesting (EH)

 <p>LTC-3588 Nanopower energy harvesting power supply IC</p>	 <p>BQ25570 / CJMCU-2557 Texas Instruments nano-power management IC and module</p>
 <p>LTC-3108-1 Ultra Low Voltage Boost Converter Power Manager Breakout Board</p>	

Energy, power, current, voltage, XDCP

 <p>INA-Moduls current/voltage/power monitor with I²C communication INA219 INA226 INA228 INA237 INA238 INA260 INA3221</p>	 <p>CJMCU-219/INA-219 breakout board/IC with I²C communication</p>
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Allegro ACS758

Hall-effect linear current sensors (CJMCU-758)



Digitales Potentiometer Board Moduls

Renesas X9C series (X9C102, X9C103, X9C104, X9C503)

Magnetic, Induction, Angle



AS5600

Magnetic Induction Angle Measurement Sensor Module

Healthcare sensoric



MAX30100/MAX30102

Heart Rate Click Sensor Module



CJMCU-6701

Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication

Audio, Microphone



MAX4466/MAX9814

Low-noise Microphone Preamplifiers



LM393

(HW-484, KY-037, KY-038) High-Sensitivity Sound Detection Module

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