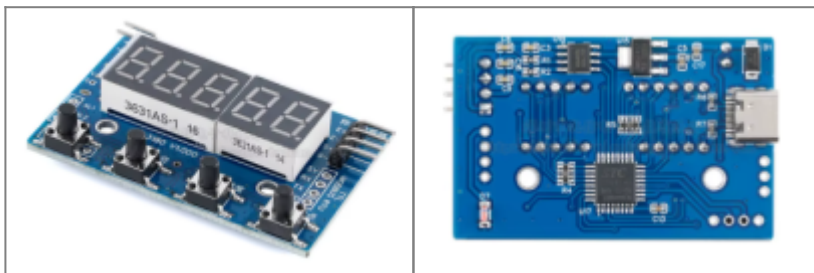


# lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication

The weighing acquisition module is a high-performance, multi-functional electronic weighing equipment. It uses advanced weighing technology to measure item weight in real time and display it on a five-digit digital display. It also includes upper- and lower-limit alarm functions. capable of achieving precise weighing control and monitoring.

At the same time, this product also features a TTL communication interface and [Modbus RTU](#) protocol, enabling convenient, rapid communication with PLCs, computers, and other equipment to transmit and remotely control weighing data. In addition, it supports Type-C power supply and button debugging, improving convenience and stability.



## Key Specifications and Features

- **Function:** The YR-3180 is a smart weighing sensor module designed to be integrated into electronic scales and instruments. It converts the mechanical force from a load cell into a precise electrical signal and displays the weight numerically.
- **High Precision:** It features a 24-bit A/D resolution (using an HX710B AD chip) for accurate weight detection.
- **Display:** The module has a five-digit digital tube display for intuitive and clear weight readings.
- **Connectivity:** It supports both TTL and RS-485 interfaces and uses the standard Modbus RTU protocol, enabling data transmission and remote control.
- **Alarm Function:** The module includes upper- and lower-limit alarms for process control and quality management.
- **Power Supply:** Powered via a Type-C/5V power supply, it also supports key debugging functions.
- **Sensor Compatibility:** When powered by the 5V TTL serial port, it can connect up to 1-4 350Q weighing sensors (load cells).
- **Acquisition Rate:** The A/D acquisition rate can be set to 10 or 40 times per second (default is 10).
- **Physical:** It is a bare-board module (no shell), measuring 45mm x 22mm.



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## Power and Communication (Host Side)

The module is powered via Type-C or dedicated pins and supports dual communication modes:

- **VCC:** 5V DC Input.
- **GND:** System Ground.
- TTL Serial Port:
  - **TX:** Transmit data (connects to MCU RX).
  - **RX:** Receive data (connects to MCU TX).
- RS-485 Interface (if the model variant supports it):
  - **A (D+):** RS-485 Differential A signal.
  - **B (D-):** RS-485 Differential B signal

## Modbus map

Data Type	Description	Common Address Range	Access
Current Weight	The main measured value (often a 32-bit float or integer)	30001 - 30002 (Input)	Read Only
Zero/Tare Command	A single coil or holding register to trigger a zero action	0001 or 40001 (Coil/Holding)	Write Only
Device Address	The Modbus Slave ID (default is often 1 or 2)	40002 (Holding)	Read/Write
Baud Rate	Communication speed setting (e.g., 9600, 19200 bps)	40003 (Holding)	Read/Write
Alarm Limit (Upper)	The high limit for the alarm output	40004 (Holding)	Read/Write
Alarm Limit (Lower)	The low limit for the alarm output	40005 (Holding)	Read/Write

Description: [YR-3180 Intelligent weighing sensor module](#)

## Arduino & YR-3180

The YR-3180 is an ultrasonic distance sensor that communicates via UART (Serial). It typically outputs a 4-byte data packet (Header, Data High, Data Low, and Checksum) every 100ms.

### Arduino Wiring

Using SoftwareSerial is recommended to keep the main hardware serial port (USB) free for your Serial Monitor.

- **VCC:** 3.3V or 5V (Check your specific module's label)
- **GND:** Arduino GND
- **TX (Sensor):** Arduino Pin 10 (RX)
- **RX (Sensor):** Arduino Pin 11 (TX)

### Arduino Example Code

This code listens for the standard 4-byte packet, verifies the checksum, and calculates the distance in

millimeters.

```
#include <SoftwareSerial.h>

// RX = 10, TX = 11
SoftwareSerial sensorSerial(10, 11);

unsigned char buffer[4];
int distance;

void setup() {
  Serial.begin(115200); // Communication with PC
  sensorSerial.begin(9600); // Standard YR-3180 baud rate
  Serial.println("YR-3180 Sensor Initialized");
}

void loop() {
  if (sensorSerial.available() > 0) {
    // Look for the start byte (0xFF)
    if (sensorSerial.read() == 0xFF) {
      buffer[0] = 0xFF;
      for (int i = 1; i < 4; i++) {
        buffer[i] = sensorSerial.read();
      }

      // Calculate Checksum: (buffer[0] + buffer[1] + buffer[2]) & 0xFF
      byte sum = (buffer[0] + buffer[1] + buffer[2]) & 0xFF;

      if (buffer[3] == sum) {
        // Distance is High Byte << 8 + Low Byte
        distance = (buffer[1] << 8) + buffer[2];
        Serial.print("Distance: ");
        Serial.print(distance);
        Serial.println(" mm");
      } else {
        Serial.println("Checksum Mismatch");
      }
    }
  }
  delay(100); // Match sensor's output frequency
}
```

## Implementation Details

- **Data Format:** The sensor transmits 4 bytes: **0xFF** (Header), **Data\_H**, **Data\_L**, and **Checksum**.
- **Blind Zone:** Like most ultrasonic sensors, it has a minimum detection distance (**typically 3cm to 25cm**) at which readings are inaccurate.
- **Interface:** If your module has a "Trigger" pin, it may support a "Controlled Mode" where it only sends data after you pull the RX line low.

## Sensor topics on lamaPLC

Page	Date	Tags
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Arduino - OLED SH1106 with AHT20/BMP280 Sensor</a></li> </ul>	2026/04/23 21:51	<a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">oled</a> , <a href="#">sh1106</a> , <a href="#">arduino code</a>
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Arduino - Vibration sensors</a></li> </ul>	2026/04/15 17:21	<a href="#">vibration</a> , <a href="#">sensor</a> , <a href="#">piezoelectric</a> , <a href="#">mems</a> , <a href="#">eddy-current</a> , <a href="#">electrodynamic</a> , <a href="#">gxfm0459</a> , <a href="#">ldtm-028k</a> , <a href="#">arduino</a> , <a href="#">arduino code</a>
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Digitales Potentiometer Board Moduls</a></li> </ul>	2026/04/11 18:29	<a href="#">sensor</a> , <a href="#">module</a> , <a href="#">arduino code</a> , <a href="#">renesas</a> , <a href="#">x9c series</a> , <a href="#">x9c102</a> , <a href="#">x9c103</a> , <a href="#">x9c104</a> , <a href="#">x9c503</a> , <a href="#">xdcp</a> , <a href="#">digitally controlled potentiometer</a>
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC project: Sension SCD CO<sup>2</sup> measurement module</a></li> </ul>	2026/04/15 19:34	<a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">oled</a> , <a href="#">sh1106</a> , <a href="#">arduino code</a>
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication</a></li> </ul>	2026/04/23 21:52	<a href="#">a0221au</a> , <a href="#">a02yyuw</a> , <a href="#">waterproof</a> , <a href="#">ultrasonic</a> , <a href="#">distance</a> , <a href="#">sensor</a> , <a href="#">uart</a> , <a href="#">ip67</a> , <a href="#">serial</a> , <a href="#">sen0311</a> , <a href="#">dfrobot</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: AHT10 Modul</a></li> </ul>	2026/03/22 03:14	<a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">sensor</a> , <a href="#">aht</a> , <a href="#">aht 10</a> , <a href="#">modul</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: AHT20 / BMP280 Modul</a></li> </ul>	2026/04/23 21:52	<a href="#">bmp280</a> , <a href="#">aht20</a> , <a href="#">adafruit</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">i2c</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: Allegro ACS758 Hall-effect linear current sensors</a></li> </ul>	2026/04/23 21:52	<a href="#">cjmcu</a> , <a href="#">cjmcu-758</a> , <a href="#">acs758</a> , <a href="#">acs758lcb-050b</a> , <a href="#">acs758lcb-100b</a> , <a href="#">acs758kcb-150b</a> , <a href="#">acs758ecb-200b</a> , <a href="#">hall-effect</a> , <a href="#">current</a> , <a href="#">sensor</a> , <a href="#">analog</a> , <a href="#">arduino</a> , <a href="#">code</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: APDS - Avago ALS and proximity detection sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	<a href="#">avago</a> , <a href="#">apds-9900</a> , <a href="#">apds-9930</a> , <a href="#">apds-9960</a> , <a href="#">als</a> , <a href="#">proximity</a> , <a href="#">detection</a> , <a href="#">gesture recognition</a> , <a href="#">gesture</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
<ul style="list-style-type: none"> <li>• <a href="#">lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module</a></li> </ul>	2026/03/28 23:50	<a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">as5600</a> , <a href="#">as-5600</a> , <a href="#">magnetic</a> , <a href="#">induction</a> , <a href="#">angle</a> , <a href="#">sensor</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	<a href="#">bme280</a> , <a href="#">bme680</a> , <a href="#">bmp180</a> , <a href="#">bmp280</a> , <a href="#">hw-611</a> , <a href="#">hw611</a> , <a href="#">bosch</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">cjmcu</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: BQ25570 / CJMCU-2557 - Texas Instruments nano-power management IC and module</a></li> </ul>	2026/04/23 21:52	<a href="#">bq25570</a> , <a href="#">sensor</a> , <a href="#">texas instruments</a> , <a href="#">nano-power management</a> , <a href="#">dc-dc boost charger</a> , <a href="#">mppt</a> , <a href="#">solar</a> , <a href="#">thermoelectric</a> , <a href="#">piezoelectric</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: CJMCU-219/INA-219 breakout board/IC with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	<a href="#">cjmcu-219</a> , <a href="#">ina-219</a> , <a href="#">ina219</a> , <a href="#">breakout board</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">voltage</a> , <a href="#">current</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">cjmcu</a>
<ul style="list-style-type: none"> <li>• <a href="#">LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I<sup>2</sup>C communication</a></li> </ul>	2026/04/23 21:52	<a href="#">cjmcu-3216</a> , <a href="#">cjmcu</a> , <a href="#">ap-3216</a> , <a href="#">ap3216</a> , <a href="#">ambient light</a> , <a href="#">proximity</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">i2c</a> , <a href="#">communication</a>

• LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication	2026/04/23 21:52	<a href="#">cjmcu-3901</a> , <a href="#">cjmcu</a> , <a href="#">pmw3901</a> , <a href="#">pmw-3901</a> , <a href="#">optical flow</a> , <a href="#">sensor</a> , <a href="#">pixart</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">pmw3901mb-txqt</a>
• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/04/23 21:52	<a href="#">cjmcu</a> , <a href="#">cjmcu-6701</a> , <a href="#">acs758</a> , <a href="#">acs-758</a> , <a href="#">galvanic skin response</a> , <a href="#">gsr</a> , <a href="#">electrodermal activity</a> , <a href="#">eda</a> , <a href="#">spi</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">sensor</a> , <a href="#">healthcare</a>
• LamaPLC: CJMCU-6814 combined gas sensor module for CO, NO <sub>2</sub> , NH <sub>3</sub>	2026/04/23 21:52	<a href="#">analog</a> , <a href="#">cjmcu</a> , <a href="#">cjmcu-6814</a> , <a href="#">mics6814</a> , <a href="#">mics-6814</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">carbon monoxide</a> , <a href="#">co</a> , <a href="#">ammonia</a> , <a href="#">nh3</a> , <a href="#">nitrogen dioxide</a> , <a href="#">no2</a>
• lamaPLC: CJMCU-811 CCS811 Gas Sensor (VOCs TVOC CO2)	2026/03/22 00:08	<a href="#">cjmcu-811</a> , <a href="#">ccs811</a> , <a href="#">gas</a> , <a href="#">sensor</a> , <a href="#">vocs</a> , <a href="#">tvoc</a> , <a href="#">eco2</a> , <a href="#">co2</a> , <a href="#">arduino</a> , <a href="#">air quality</a> <a href="#">metal oxide</a> , <a href="#">mox</a> , <a href="#">i2c</a>
• LamaPLC: CJMCU-8221 Analog Devices Precision instrumentation amplifier module	2026/04/23 21:52	<a href="#">cjmcu-8221</a> , <a href="#">ad8221ar</a> , <a href="#">analog devices</a> , <a href="#">amplifier</a> , <a href="#">sensor</a> , <a href="#">cjmcu</a>
• LamaPLC: D6T Omron Non-Contact Thermal Sensors with I <sup>2</sup> C communication	2026/04/23 21:52	<a href="#">d6t</a> , <a href="#">d6t-32l</a> , <a href="#">d6t-44l</a> , <a href="#">d6t-8l</a> , <a href="#">d6t-1a</a> , <a href="#">omron</a> , <a href="#">non-contact</a> , <a href="#">thermal</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">arduino</a> , <a href="#">code</a>
• LamaPLC: DHT Temperature /Humidity sensors with 1-wire / I <sup>2</sup> C communication	2026/04/23 21:52	<a href="#">dht11</a> , <a href="#">dht20</a> , <a href="#">dht22</a> , <a href="#">temperature</a> , <a href="#">humidity</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">1-wire</a> , <a href="#">arduino</a> , <a href="#">code</a>
• LamaPLC: DPS Infineon Temperature/Pressure sensors with I2C communication	2026/04/23 21:52	<a href="#">dps310</a> , <a href="#">infineon</a> , <a href="#">temperature</a> , <a href="#">pressure</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">code</a>
• lamaPLC: DS18B20 1-Wire Digital Thermometer	2026/04/23 21:52	<a href="#">ds18b20</a> , <a href="#">sensor</a> , <a href="#">1-wire</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">thermometer</a> , <a href="#">parasitic mode</a>
• lamaPLC: Energy, power, current, and voltage	2025/05/31 23:32	<a href="#">i2c</a> , <a href="#">i c</a> , <a href="#">communication</a> , <a href="#">arduino</a> , <a href="#">energy</a> , <a href="#">power</a> , <a href="#">current</a> , <a href="#">sensor</a> , <a href="#">ina226</a>
• LamaPLC: ENS ScioSense Multi-gas sensors with I <sup>2</sup> C communication	2026/04/23 21:52	<a href="#">ens160</a> , <a href="#">sciosense</a> , <a href="#">gas-quality</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a> , <a href="#">eco2</a> , <a href="#">tvoc</a> , <a href="#">aqi</a> , <a href="#">indoor air quality</a> , <a href="#">iaq</a> , <a href="#">co2</a> , <a href="#">voc</a>
• lamaPLC: ENS160 + AHT21 Air Quality Sensor - CO, ECO, TVOC, Temp & Humidity Module	2026/04/23 21:52	<a href="#">arduino</a> , <a href="#">ens160</a> , <a href="#">aht21</a> , <a href="#">air quality</a> , <a href="#">sensor</a> , <a href="#">co</a> , <a href="#">eco</a> , <a href="#">tvoc</a> , <a href="#">module</a> , <a href="#">aqi</a>
• LamaPLC: Gas sensors	2023/07/01 17:29	<a href="#">gas</a> , <a href="#">sensor</a> , <a href="#">i2c</a> , <a href="#">onewire</a> , <a href="#">communication</a> , <a href="#">mq-3</a> , <a href="#">mq-4</a> , <a href="#">mq-5</a> , <a href="#">mq-6</a> , <a href="#">mq-7</a> , <a href="#">mq-8</a> , <a href="#">mq-9</a> , <a href="#">mq-135</a> , <a href="#">gm-102b</a> , <a href="#">gm-302b</a> , <a href="#">gm-502b</a> , <a href="#">gm-702b</a> , <a href="#">alcohol</a> , <a href="#">ch4</a> , <a href="#">natural gas</a> , <a href="#">smoke</a> , <a href="#">lng</a> , <a href="#">co</a> , <a href="#">co2</a> , <a href="#">lpg</a> , <a href="#">h2</a> , <a href="#">iso-butane</a> , <a href="#">nox</a> , <a href="#">nh3</a> , <a href="#">benzene</a> , <a href="#">town gas</a> , <a href="#">formaldehyde</a> , <a href="#">propane</a> , <a href="#">humidity</a> , <a href="#">temperature</a> , <a href="#">voc</a> , <a href="#">grv gas sens v2</a>

- [LamaPLC: GM MEMS Gas-sensors](#) 2026/04/23 21:52

gm-102b, gm-302b, gm-502b, gm-702b, mems, gas-quality, sensor, arduino, code, nitrogen dioxide, no2, volatile organic compounds, voc, carbon monoxide, co, ethyl alcohol, c2h5ch, formaldehyde, ch2o, alcohol, c2h5oh
- [lamaPLC: GY-511 6DOF sensor module](#) 2026/03/22 01:44

stmicroelectronics, lsm303dlhc, i2c, lsm303, sensor, gy-511, 6dof, pololu, module, arduino
- [LamaPLC: HC-SR04 Ultrasonic Sensor Module](#) 2026/04/23 21:52

hc-sr04, ultrasonic, sensor, arduino, code
- [LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52

sht21, htu21, si7021, gy-21, gy-213v, hdc1080, gy-213v-hdc1080, cjmcu, cjmcu-1080, texas instruments, temperature, humidity, sensor, i2c, communication, arduino, code
- [LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52

htu, htu31d, htu21d, htu20d, sht20, htu20, sht21, htu21, si7021, gy-21, gy-213v, hdc1080, si702, gy-20, sht31, htu31, si7031, gy-31, te connectivity, temperature, humidity, i2c, communication, sensor, arduino, code
- [LamaPLC: HX711 24-bit analog-to-digital converter \(ADC\)](#) 2026/04/11 18:28

hx711, hx-711, analog-to-digital, adc, converter, load cell, wheatstone bridge, weight, sensor, communication, arduino, code
- [lamaPLC: INA modules with Arduino libraries](#) 2026/04/11 19:54

i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina219, gy-219, ina226, gy-216, ina228, gy-228, ina237, ina238, ina260, ina3221, ina
- [lamaPLC: INA226 - current/voltage/power monitor with I<sup>2</sup>C communication](#) 2026/04/23 21:52

i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina
- [lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC](#) 2026/04/23 21:52

communication, arduino, sensor, energy harvesting, energy, ambient power
- [LamaPLC: M01 - V0.4 Laser ranging sensor with UART communication](#) 2026/04/23 21:52

distance measurement, laser, distance, sensor, m01
- [LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module](#) 2026/04/23 21:52

max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code
- [lamaPLC: Max31865 RTD to Digital Converter - PT100/PT1000 Platine](#) 2026/04/23 21:52

max31865, rtd, pt 100, pt 1000, temperature, spi, platinum, arduino, code, sensor, adafruit
- [LamaPLC: MAX4466/MAX9814: Low-noise Microphone Preamplifiers](#) 2026/04/23 21:52

audio, microphone, analogue audio, max4466, max9814, max 4466, max 9814, agc, preamplifiers, sensor, arduino, code

• <a href="#">LamaPLC: MH-Z19 series of NDIR CO<sub>2</sub> sensors</a>	2026/04/23 21:52	<a href="#">mh-z19, mh-z19d, mh-z19c, mh-z19b, mh-z19e, ndir, co<sub>2</sub>, sensor, winsen, uart, pwm, communication, non-dispersive infrared, infrared, ir, temperature, arduino, code, tasmota</a>
• <a href="#">lamaPLC: MPU-6050 (HW-123, GY-521) 6-axis MotionTracking device</a>	2026/03/22 03:13	<a href="#">mpu-6050, hw-123, gy-521, 6-axis motiontracking, dmp, temperature, sensor, mems, arduino code, arduino, accelerometer, gyroscope, tilt</a>
• <a href="#">LamaPLC: MQ Winsen Gas-sensors</a>	2026/04/23 21:52	<a href="#">mq, mq-2, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-131, mq-135, mq-137, winsen, gas-sensor, sensor, arduino, code, alcohol, c<sub>2</sub>h<sub>5</sub>oh, benzine gas, smoke, lpg, propane, c<sub>3</sub>h<sub>8</sub>, hydrogen, h<sub>2</sub>, methane, ch<sub>4</sub>, iso-butane, town gas, ammonia, nh<sub>3</sub></a>
• <a href="#">LamaPLC: PIR sensors</a>	2026/04/23 21:52	<a href="#">hc-sr501, hc-sr505, am-312, ekmb ekmc, pir, motion, sensor, arduino, code</a>
• <a href="#">LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">paj7620u2, gy-paj7620, pixart, gesture recognition, i2c, communication, sensor, arduino, code</a>
• <a href="#">lamaPLC: PT100 / PT1000</a>	2025/09/23 18:59	<a href="#">pt100, pt1000, temperature, sensor, platine, rtd</a>
• <a href="#">lamaPLC: PTA8C04 4-channel PT100 Modbus Modul</a>	2026/02/14 18:42	<a href="#">pta8c04, sensor, modbus, rtu, rs-485, communication, platine, um72</a>
• <a href="#">LamaPLC: RCWL - Microwave radar sensor</a>	2026/04/23 21:52	<a href="#">rcwl-0516, rcwl, microwave, radar, sensor, arduino, code</a>
• <a href="#">lamaPLC: RD-xx - Ai-Thinker Radar Module with UART communication</a>	2026/04/23 21:52	<a href="#">radar, s3km1110, fmcw, rd-01, rd-03, rd-03d, ai-thinker, k-band, 24 ghz, sensor, distance, micro-movements</a>
• <a href="#">LamaPLC: SGP Sensirion TVOC/VOC sensors with I<sup>2</sup>C communication</a>	2026/04/15 19:41	<a href="#">sgp30, sgp40, sgp41, sensirion, gas-sensor, i2c, communication, sensor, arduino, code, eco<sub>2</sub>, voc, tvoc, indoor air quality, iaq, nox, hydrogen</a>
• <a href="#">LamaPLC: SHT Sensirion Temperature/humidity sensor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">sht20, sht21, sht25, sht30, sht31, sht35, sht40, gy21, temperature, humidity, i2c, communication, sensor, arduino, code</a>
• <a href="#">LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication</a>	2026/04/23 21:52	<a href="#">ads111x, ads12xx, delta-sigma, converter, texas instruments, adc, spi, communication, sensor, arduino, code, ads1110, ads1112, ads1113, ads1114, ads1115, ads1118, ads1119, ads1220, ads1232, ads1234, ads1256, ads1261, ads1263, multi channel</a>
• <a href="#">LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">tof050c, vl6180, tof200c, vl5310x, tof400c, vl5311x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code</a>
• <a href="#">LamaPLC: UICPAL Temp.humi.sensor</a>	2023/06/25 00:43	<a href="#">simatic, s7, modbus, communication, temperature, humidity, sensor</a>

- [LamaPLC: VL53Lnn STMicroelectronics time-of-flight \(ToF\) laser-ranging sensors with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [vl53l0x, vl53l1x, vl53l0 1xv2, gy-530, time-of-flight, tof, laser-ranging, i2c, communication, sensor, arduino, code](#)
- [LamaPLC: VL6180X STMicroelectronics Time-of-Flight \(ToF\) sensor with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code](#)
- [LamaPLC: Waveshare TOF Laser Range Sensor with UART / I<sup>2</sup>C communication](#) 2026/04/23 21:52 [distance measurement, laser, range, sensor, tof, waveshare](#)
- [lamaPLC: YR-3180 - Weight sensor module with UART or Modbus communication](#) 2026/02/15 00:00 [communication, modbus, rtu, sensor, weight, yr-3180, hx710b, arduino, ttl, rs-485](#)
- [Magnetic angle sensors](#) 2026/03/05 21:19 [magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
- [NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU](#) 2026/02/14 18:49 [nt18b07, sensor, modbus, rtu, rs-485, communication, platine](#)
- [PT100 / PT1000 sensors](#) 2026/04/23 21:52 [rtd, pt100, pt1000, sensor, temperature](#)
- [Radar Module RD-xx](#) 2026/04/23 21:52 [radar, s3km1110, fmcw, rd-03, k-band, 24 ghz, sensor, distance, micro-movements](#)

[communication, modbus, RTU, sensor, weight, YR-3180, HX710B, Arduino, TTL, RS-485](#)

This page has been accessed for: Today: 2, Until now: 4

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