

lamaPLC project: Sension SCD CO² measurement module



The main distinction between these Sensirion sensors lies in their measurement technology, which affects their size and power use. The **SCD30** employs conventional **NDIR** (*Non-Dispersive Infrared*) technology, whereas the **SCD40/41** series utilises a more recent, compact Photoacoustic principle.

Feature	SCD30	SCD40	SCD41
Technology	NDIR (Dual-Channel)	Photoacoustic	Photoacoustic
Size	35 x 23 x 7 mm	10.1 x 10.1 x 6.5 mm	10.1 x 10.1 x 6.5 mm
CO² Range	0 - 40,000 ppm	400 - 2,000 ppm	400 - 5,000 ppm
Accuracy	±(30 ppm + 3% MV)	±(50 ppm + 5% MV)	±(40 ppm + 5% MV)
Voltage	3.3V - 5.5V	2.4V - 5.5V	2.4V - 5.5V
Power (avg)	~19 mA	~15 mA	~0.5 mA (Low Power Mode)
Interface	I ² C (Address 0x61), UART, PWM	I ² C	I ² C
Operating Temperature	0°C to 50°C		

Key Differences

- **Form Factor:** The SCD40/41 is approximately ten times smaller than the SCD30, making it well-suited for compact wearables or integrated smart home devices.
- **Precision vs Size:** The SCD30 generally offers slightly better accuracy and stability over extended periods, thanks to its dual-channel NDIR design, which naturally compensates for sensor drift.
- **Power Efficiency:** For battery-powered devices, the SCD41 is the preferred choice, featuring a “Single Shot” mode that significantly reduces power consumption compared to the SCD30 or SCD40.
- **Mounting:** The SCD40/41 is an SMD (Surface-Mount Device) component suitable for reflow soldering and mass production. In contrast, the SCD30 is usually hand-soldered or connected via pins.



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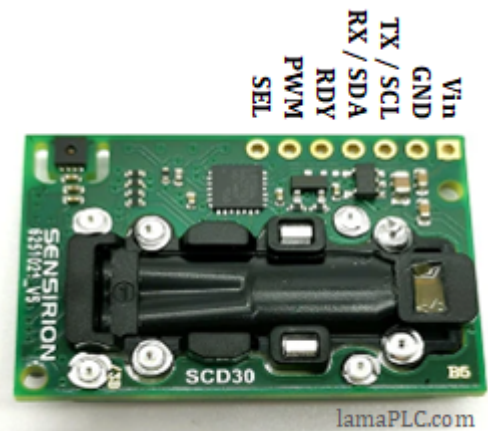
SCD30

The SCD30 is a high-precision, 3-in-1 sensor module from Sensirion that measures Carbon Dioxide (CO²), Temperature, and Relative Humidity. It is considered a “true” CO² sensor because it uses Non-Dispersive Infrared (NDIR) technology to directly measure CO² molecules, rather than approximating levels from other gases.

Key Features & Technology

- **Dual-Channel Detection:** It uses a dedicated reference channel to compensate for long-term drift, ensuring superior stability over its 15-year lifetime.
- **Integrated Compensation:** The module uses its built-in temperature and humidity data to internally calibrate and normalise the CO₂ readings.
- **Self-Calibration Options:** Supports Automatic Self-Calibration (ASC), which resets the sensor's baseline when exposed to fresh air (~400 ppm) regularly, or Forced Recalibration (FRC) for manual setup.
- **Adjustable Sampling:** While the default interval is 2 seconds, it can be set to 1-1800 seconds to reduce power consumption in battery-powered projects.

SCD30 Pinout



Pin	Name	Description	Logic Level
1	VDD	Supply Voltage (3.3V - 5.5V)	—
2	GND	Ground	—
3	TX / SCL	Modbus Transmit / I ² C Clock	3.0V (internal pull-up)
4	RX / SDA	Modbus Receive / I ² C Data	3.0V (internal pull-up)
5	RDY	Data Ready (High when new data is available)	3.0V
6	PWM	Pulse Width Modulation output	3.0V
7	SEL	Interface Select (Floating/GND = I ² C; High = Modbus)	< 4.0V

Key Wiring Notes

- **Internal Pull-ups:** The module has internal 45 kΩ resistors connected to a 3V supply for the I²C lines.

- **Voltage Warning:** The module can be powered with 5V, but the SCL/SDA logic pins operate at 3V. When using a 5V microcontroller like an Arduino Uno, a level shifter is strongly advised to prevent damage to the sensor.
- **Interface Selection:** For I²C (the standard mode), leave the SEL pin floating or connect it to Ground. To use Modbus, connect the SEL pin to VDD via a voltage divider, ensuring the voltage does not exceed 4V.

SCD30 Arduino example code

To use the SCD30 with an Arduino, the **SparkFun SCD30** Arduino Library and the Adafruit SCD30 Library are the most common choices.

```
#include <Wire.h>
#include "SparkFun_SCD30_Arduino_Library.h" //

SCD30 airSensor;

void setup() {
  Wire.begin();
  Serial.begin(9600);

  if (airSensor.begin() == false) {
    Serial.println("Sensor not detected. Check wiring!");
    while (1);
  }
  Serial.println("SCD30 detected!");
}

void loop() {
  if (airSensor.dataAvailable()) {
    Serial.print("CO2(ppm): ");
    Serial.print(airSensor.getCO2());
    Serial.print(" Temp(C): ");
    Serial.print(airSensor.getTemperature(), 1);
    Serial.print(" Humidity(%): ");
    Serial.println(airSensor.getHumidity(), 1);
  }
  delay(2000); // Sensor updates every 2 seconds by default
}
```

Communication topics on lamaPLC

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• ISM Band	2026/04/23 21:51	ism , ism band , rfid , nfc , dash7 , hc-12 , arduino , zigbee , z-wave , bluetooth , wi-fi , thread , miwi , nrf24 , starlink , wiegand , rf , communication , bus , radio , ku band , ka band , k band , x band

- [lamaPLC Communication: 1-Wire](#) 2026/04/23 21:51 [1-wire, communication, bus, microlan, i2c, uart, usart, ds18b20](#)
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- [lamaPLC Communication: DALI](#) 2024/11/16 21:08 [communication, rs-232, dali, light technic, diia, selv, manchester, asynchronous, half-duplex, serial, iec 62386, d4i, dali-2, dt6, dt8](#)
- [lamaPLC Communication: DASH7](#) 2026/04/23 21:51 [bus, communication, dash7, ism, srd, aes 128, d7a, blast, iot, rfid](#)
- [lamaPLC Communication: DeviceNet](#) 2024/11/16 20:43 [bus, communication, devicenet, 62026-3, cip, can, ethernet ip, ethernet, controlnet, mac, peer-to-peer, canopen, allen-bradley, rockwell automation, bosch](#)
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- [lamaPLC Communication: IEC 61850 basic](#) 2026/04/23 21:51 [1-wire, communication, bus, xml, iec 61850, iec, ethernet, scl, goose, ied](#)
- [lamaPLC Communication: InterBus](#) 2024/11/16 01:46 [bus, communication, interbus, phoenix contact, en 50254, iec 61158](#)
- [lamaPLC Communication: IoT](#) 2026/04/23 21:51 [communication, iot, internet, iomt, 6lowpan, ipv4, ipv6, bluetooth, ble, li-fi, nfc, rfid, wi-fi, zigbee, z-wave, lte-advanced, 5g, lora, dash7, lpwan, lorawan, sigfox, nb-iot, weightless, rpma, mioty, vsat, ethernet, thread, matter](#)
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• lamaPLC Communication: RFID	2026/04/23 21:51	communication , rfid , radio , rf , aidc , prat , arpt , arat , bap , uhf , nfc , em4100 , t5557 , tag , manchester , fsk , psk , biphase , nrz
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• lamaPLC Communication: RS-422	2026/04/23 21:51	bus , communication , rs-422 , rs , basic
• lamaPLC Communication: RS-485	2026/04/23 21:51	bus , communication , rs-485 , rs , basic , profibus
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• lamaPLC Communication: SPI	2026/04/23 21:51	bus , communication , spi , basic , arduino , ssi , sdi , miso , sdo
• lamaPLC Communication: TCP / UDP Basic	2025/11/20 22:49	communication , bus , tcp , udp , tcp ip , darpa , ietf , smtp , http , https , ftp , ftps , ssh , pop3 , imap , mysql , cpanel , whm , ssl , webmail , mqtt , ethernet , ip
• lamaPLC communication: Thread	2024/11/15 23:07	bus , communication , matter , thread , matter over thread , zigbee , aes , ipv6 , iot , 6lowpan , ethernet , wifi
• lamaPLC Communication: UART / USART basic	2026/04/23 21:51	bus , communication , uart , rs-232 , rs-422 , rs-485
• lamaPLC Communication: USB	2026/04/23 21:51	usb , usb otg , otg , msc , ums , mtp , dfu , uac , adc , communication , bus , basic

- [lamaPLC Communication: Wi-Fi](#) 2026/04/23 21:51 [communication, iot, internet, wi-fi, wifi, ieee 802.11](#)
- [lamaPLC Communication: Wiegand](#) 2026/04/23 21:51 [wiegand, communication, interface, cr80, iec 7810, h10301, hid, wiegand 26, wiegand 32, wiegand 34, wiegand 35, wiegand 37, wiegand 38, wiegand 42](#)
- [lamaPLC Communication: WS2812](#) 2024/11/16 00:36 [bus, communication, ws2812, ws2812b, ws 2812, ws 2812 b, 5050smd, 4020, 2020, 3535, 5050, nzt, rgb chip, led, arduino, rgb](#)
- [lamaPLC Communication: Z-Wave](#) 2026/04/23 21:51 [communication, ethernet, bus, ip, z-wave, ism](#)
- [lamaPLC Communication: Zigbee](#) 2026/04/23 21:51 [communication, ethernet, bus, ip, zigbee, wpan, bluetooth, wi-fi, ism, ieee 802.15.4, zdo, zigbee pro, zc, zr, zed, smart energy, homegrid, homeplug, powerline, ipso, sunspec, 6lowpan, ipv6, rf4ce](#)
- [LamaPLC: AHT10 Modul](#) 2026/03/22 03:14 [communication, i2c, temperature, humidity, sensor, aht, aht 10, modul](#)
- [lamaPLC: AI-Thinker LoRA products](#) 2026/04/23 21:51 [ai-thinker, lora manufacturer, communication, lora, modul, ra-01, ra-02, spi, arduino](#)
- [LamaPLC: APDS - Avago ALS and proximity detection sensors with I²C communication](#) 2026/04/23 21:52 [avago, apds-9900, apds-9930, apds-9960, als, proximity, detection, gesture recognition, gesture, i2c, communication, sensor, arduino, code](#)
- [lamaPLC: AS5600 Magnetic Induction Angle Measurement Sensor Module](#) 2026/05/13 00:06 [communication, i2c, as5600, as-5600, magnetic, induction, angle, sensor](#)
- [lamaPLC: B+G E-Tech DS100 Energy Meter with Modbus](#) 2026/06/05 15:59 [communication, modbus, b g, e-tech, ds100, energy meter, em](#)
- [LamaPLC: BMP/BME Bosch Temperature/Humidity/Pressure sensors with I²C communication](#) 2026/04/23 21:52 [bme280, bme680, bme688, bmp180, bmp280, hw-611, hw611, bosch, temperature, humidity, pressure, sensor, arduino, i2c, communication, ai, cjmcu, volatile organic compounds, vocs, volatile sulfur compounds, vscs, iaq](#)
- [lamaPLC: CJMCU-164; SN74HC164D 8-bit Shift Register Module](#) 2026/03/06 01:19 [cjmcu-164, sn74hc164d, 8-bit shift register, communication, 7-segment, cjmcu, arduino](#)
- [LamaPLC: CJMCU-219/INA-219 breakout board/IC with I²C communication](#) 2026/04/23 21:52 [cjmcu-219, ina-219, ina219, breakout board, i2c, communication, sensor, voltage, current, arduino, code, cjmcu](#)
- [LamaPLC: CJMCU-3216 / AP-3216 integrated digital ambient light and proximity sensor module/IC with I²C communication](#) 2026/04/23 21:52 [cjmcu-3216, cjmcu, ap-3216, ap3216, ambient light, proximity, sensor, arduino, code, i2c, communication](#)
- [LamaPLC: CJMCU-3901/PMW-3901 compact optical flow sensor module/IC by PixArt with SPI communication](#) 2026/04/23 21:52 [cjmcu-3901, cjmcu, pmw3901, pmw-3901, optical flow, sensor, pixart, spi, communication, arduino, code, pmw3901mb-txqt](#)

• LamaPLC: CJMCU-6701: Biosensor for measuring Galvanic Skin Response (GSR) with SPI communication	2026/04/23 21:52	cjmcu, cjmcu-6701, acs758, acs-758, galvanic skin response, gsr, electrodermal activity, eda, spi, communication, arduino, code, sensor, healthcare
• lamaPLC: Communication with Eastron Smart X96	2026/06/05 15:59	communication, modbus, energy meter, em, eastron, smart, x96
• LamaPLC: DPS Infineon Temperature/Pressure sensors with I2C communication	2026/04/23 21:52	dps310, infineon, temperature, pressure, sensor, arduino, i2c, communication, code
• lamaPLC: DS18B20 1-Wire Digital Thermometer	2026/04/23 21:52	ds18b20, sensor, 1-wire, communication, arduino, thermometer, parasitic mode
• lamaPLC: Ebyte LoRA products	2026/04/23 21:51	ebyte, lora manufacturer, communication, lora, modul
• lamaPLC: Energy, power, current, and voltage	2025/05/31 23:32	i2c, i c, communication, arduino, energy, power, current, sensor, ina226
• LamaPLC: ENS ScioSense Multi-gas sensors with I ² C communication	2026/04/23 21:52	ens160, sciosense, gas-quality, i2c, communication, sensor, arduino, code, eco ₂ , tvoc, aqi, indoor air quality, iaq, co ₂ , voc
• lamaPLC: ESP32 / ESP8266	2025/11/22 00:07	esp8266, esp32, esp32-c2, esp32-c3, esp32-c5, esp32-c6, esp32-c61, esp32-h2, esp32-s2, esp32-s3, esp32-p4, espressif systems, communication, ethernet, ip, wi-fi, thread, zigbee, matter, homekit, bluetooth, mqtt, adc, spi, uart, i2c, i2s, rmt, pwm, usb, usb otg, twai
• LamaPLC: Gas sensors	2023/07/01 17:29	gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2
• LamaPLC: GY-9250 MPU-9250/6500 9-axis Attitude Sensor Board	2026/04/23 21:52	ak8963, gy-9250, mpu-9250, 9-axis, motion detection, magnetometer, communication, i c, i2c, spi
• LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I ² 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 ² 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	2026/04/23 21:52	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 I²C communication	2026/04/23 21:52	i2c , i c , communication , arduino , energy , power , current , monitor , sensor , ina226 , ina219 , ina
• lamaPlc: Industrial Ethernet (IE) Basic	2026/04/23 21:51	communication , bus , ethernet , industrial ethernet , ie , ethercat , ethernet ip , profinet , powerlink , sercos , iii , cc-link , modbus tcp , ieee , rstp , stp
• lamaPLC: LCD 1602/2004 with I²C communication	2026/02/14 18:27	communication , i2c , display , lcd , 1602 , 2004 , hd44780 , pcf8574 , pcf8574t , pcf8574at , arduino
• lamaPLC: LTC3588 - Nanopower energy harvesting power supply IC	2026/04/23 21:52	communication , arduino , sensor , energy harvesting , eh , energy , ambient power
• LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module	2026/04/23 21:52	max30102 , max30100 , heart rate click , sensor , communication , i2c , arduino , code
• lamaPLC: MCP23017 / MCP23S17 16-Bit I/O Expander with Serial Interface I²C / SPI	2026/04/23 21:52	communication , i2c , mcp23017 , mcp23s17 , spi , i o expander , serial , cjmcu-2317 , cjmcu
• LamaPLC: MH-Z19 series of NDIR CO₂ sensors	2026/04/23 21:52	mh-z19 , mh-z19d , mh-z19c , mh-z19b , mh-z19e , ndir , co₂ , sensor , winsen , uart , pwm , communication , non-dispersive infrared , infrared , ir , temperature , arduino , code , tasmota
• lamaPLC: MLX90614 (GY-906) infrared non-contact thermometer	2026/05/08 00:03	communication , i2c , temperature , mlx90614 , gy-906 , modul , infrared , non-contact thermometer , dsp , pwm , smbus , hailege
• lamaPLC: PCF857x I/O Expander chip/modul with I²C communication	2026/05/15 01:03	communication , i2c , pcf857x , pcf8574 , pcf8574a , pcf8575 , i o expander , i o extension , npx , texas instruments
• LamaPLC: Pixart PAJ7620U2 Gesture recognition sensors/module with I²C communication	2026/04/23 21:52	paj7620u2 , gy-paj7620 , pixart , gesture recognition , i2c , communication , sensor , arduino , code
• lamaPlc: Profinet	2026/04/23 21:51	communication , bus , profinet , mrp , rstp , gsdml , xml , profibus , ethernet , tcp
• lamaPLC: PTA8C04 4-channel PT100 Modbus Modul	2026/02/14 18:42	pta8c04 , sensor , modbus , rtu , rs-485 , communication , platine , um72
• lamaPLC: RadiationD Geiger counter module and tubes	2026/05/15 16:47	communication , j305 , j321 , m4011 , sbm-20 , sts-5 , lnd-712 , radiation , miller , geiger-mueller , tube , saturation , radiationd , module , usv h , cpm , cajoe
• lamaPLC: RP2040_ETH_Modul: MLX90614 simple	2026/05/12 17:06	code , micropython , 2026 , rp2040 eth , i2c , communication , mlx90614

• lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data	2026/05/12 21:06	code, micropython, 2026, rp2040 eth, bme680, i2c, sensor, communication
• lamaPLC: RP2040_ETH_Modul: Read BME 680/688 sensor data and store in Modbus input registers	2026/05/12 18:58	code, micropython, 2026, rp2040 eth, bme680, i2c, sensor, communication
• LamaPLC: S7-1500 and Metrawatt EM2389 Modbus TCP communication	2026/04/23 21:52	simatic, s7, modbus, communication, metrawatt, em2389, source code, scl, mid
• LamaPLC: S7-1500 and Sicam Q200 Modbus TCP communication	2026/04/23 21:52	simatic, s7, modbus, tia portal, communication, sicam, q200, sicam q200, source code, scl, class a
• lamaPLC: S7-1500 and UICPAL Temp.humi.sensor Modbus TCP communication	2023/06/19 23:24	bus, communication, s7, simatic, s7 1500, s7 1200, scl, uicpal, temperature, humidity, modbus, example, download, tia portal
• LamaPLC: SGP Sensirion TVOC/VOC sensors with I ² C communication	2026/04/15 19:41	sgp30, sgp40, sgp41, sensirion, gas-sensor, i2c, communication, sensor, arduino, code, eco2, voc, tvoc, indoor air quality, iaq, nox, hydrogen
• LamaPLC: SHT Sensirion Temperature/humidity sensor with I ² C communication	2026/04/23 21:52	sht20, sht21, sht25, sht30, sht31, sht35, sht40, gy21, temperature, humidity, i2c, communication, sensor, arduino, code
• LamaPLC: ST7789 driver / TFT-LCD screen	2026/05/19 21:37	communication, spi, st7789, tft, lcd, screen, ips
• lamaPLC: TCA9548A (HW617); Low-Voltage 8-Channel I ² C Switch Module	2026/02/14 23:51	tca9548a, hw617, i2c, switch, communication, expansion board, arduino
• LamaPLC: Texas Instruments ADCs: Delta-sigma multi-channel Analog Converters with SPI communication	2026/04/23 21:52	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
• LamaPLC: TOFnnnC STMicroelectronics Time-of-Flight (ToF) sensors with I ² C communication	2026/04/23 21:52	tof050c, vl6180, tof200c, vl5310x, tof400c, vl5311x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
• lamaPLC: TWAI basics	2026/04/23 21:51	bus, communication, as-i, basic, can, twai, espressif, esp32
• LamaPLC: UICPAL Temp.humi.sensor	2023/06/25 00:43	simatic, s7, modbus, communication, temperature, humidity, sensor
• LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I ² 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 ² C communication	2026/04/23 21:52	vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code
• lamaPLC: Waveshare LoRA products	2026/03/07 01:46	waveshare, lora manufacturer, communication, lora, modul, usb-to-lora-xf02, core 1262, 1262, spi, arduino, rp2040-lora, rp2040

- [lamaPLC: XGZP68xx: Silicon Pressure Sensors/Module](#) 2026/05/15 15:17 [communication, i2c, sensor, modul, pressure, cfsensor, xgzp68xx, xgzp6810d, xgzp6857d, xgzp6859d, xgzp6887d, xgzp6897d, xgzp6899a, piezoresistive, capacitive](#)
- [LamaPLC: XTM35SC Energy meter with Modbus communication](#) 2026/06/05 15:59 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)
- [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](#)
- [LM393: Dual differential comparator \(flame, light, sound sensors\)](#) 2026/05/12 22:18 [communication, analog, lm393, lm-393, flame, ir, sound, hall, sensor, ky-026, hw-484, ky-037, ky-038, fc-03, hc-89, ky-024, modul](#)
- [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](#)
- [Simatic Modbus S7 error- and statuscodes](#) 2026/04/23 21:52 [communication, bus, modbus, error, modbus error code, 7000, 7001, 7002, 7003, 7004, 7005, 7006, 80a1, simatic, s7, siemens, tia](#)
- [Waveshare](#) 2026/04/23 21:52 [waveshare, converter, modbus, modbus rtu, modbus tcp, communication](#)
- [XTM35SC current / voltage meter](#) 2026/04/23 21:52 [xtm35sc, modbus, modbus rtu, measuring, power, communication, current meter, voltmeter](#)

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