

lamaPLC project: Sension SCD CO² measurement module



The main distinction between these Sension 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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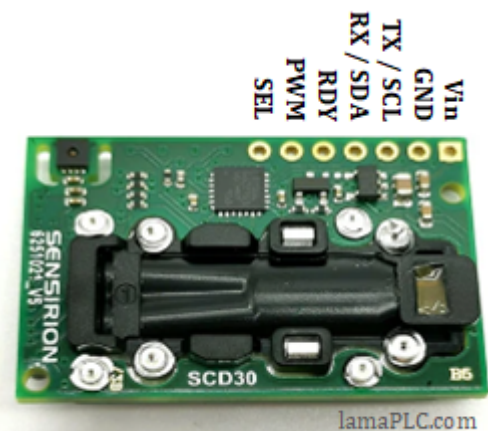
SCD30

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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- [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: AHT10 Modul](#) 2026/03/22 03:14 [communication](#), [i2c](#), [temperature](#), [humidity](#), [sensor](#), [aht](#), [aht 10](#), [modul](#)
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- [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](#)

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• 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
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• 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 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 , 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: 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: S7-1500 and Metrawatt EM2389 Modbus TCP communication	2026/04/23 21:52	simatic , s7 , modbus , communication , metrawatt , em2389 , source code , scl , mid
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• 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 I²C 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 I²C communication	2026/04/23 21:52	sht20 , sht21 , sht25 , sht30 , sht31 , sht35 , sht40 , gy21 , temperature , humidity , i2c , communication , sensor , arduino , code
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• 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 I²C communication	2026/04/23 21:52	tof050c , vl6180 , tof200c , vl53l0x , tof400c , vl53l1x , 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 I²C 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 I²C 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: XTM35SC Modbus communication	2024/08/18 16:52	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
• 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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