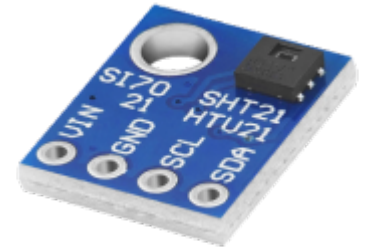


# LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication

The HTUs are highly accurate, digital relative humidity and temperature sensors known for their low power consumption, I<sup>2</sup>C interface, and factory calibration.



## Key Features

- **High Accuracy:**
  - **Humidity:** Typical accuracy of  $\pm 2\%$  RH within the optimized range of 5% to 95% RH.
  - **Temperature:** Typical accuracy of  $\pm 0.3^\circ\text{C}$  over an operating range of  $0^\circ\text{C}$  to  $70^\circ\text{C}$ .
- **Digital I<sup>2</sup>C Interface:** Uses the common I<sup>2</sup>C protocol for easy integration with most microcontrollers (e.g., Arduino, ESP32, Raspberry Pi), requiring only two data lines (SDA and SCL) in addition to power.
- **Low Power Consumption:** Designed for battery-powered and power-sensitive applications, with current consumption as low as  $0.14\mu\text{A}$  in sleep mode.
- **Wide Operating Range:**
  - **Humidity:** 0% to 100% RH range.
  - **Temperature:**  $-40^\circ\text{C}$  to  $125^\circ\text{C}$  range.
- **Selectable Resolution:** The resolution can be configured by the user, ranging from 8/12 bits for RH/T to a maximum of 12/14 bits for RH/T, allowing a trade-off between measurement speed and precision.
- **Fast Response Time:** Offers a typical humidity response time of 5 seconds.
- **Factory Calibrated & Linearized:** Each sensor is individually calibrated and provides a linearized digital signal, eliminating the need for complex calibration routines in the host device.
- **Integrated Fault Detection:** Includes a checksum (CRC) feature to improve communication reliability and an electronic identification code stored on the chip for traceability.
- **Protective Filter Option:** The HTU21D(F) variant includes an optional hydrophobic PTFE filter that protects the sensor from dust and water immersion, preserving performance in demanding environments.
- **Full Interchangeability:** No calibration is required when swapping sensors under standard conditions.



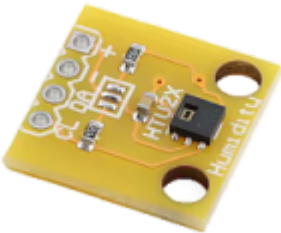
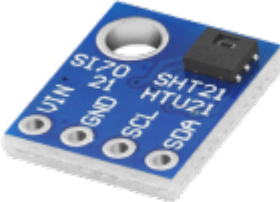

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## Difference between HTU31D, HTU21D and HTU20D

The primary difference among the HTU20D, HTU21D, and HTU31D is an incremental improvement in accuracy, supply-voltage range, and power consumption as the model number increases. The sensors are largely interchangeable and use the same I<sup>2</sup>C communication protocol.

Specification	HTU20D	HTU21D	HTU31D
			
<b>Similar types</b>	SHT20, HTU20, Si702, GY-20 <sup>1</sup>	SHT21, HTU21, Si7021, GY-21, GY-213V, HDC1080 <sup>2</sup>	SHT31, HTU31, Si7031, GY-31 <sup>3</sup>
<b>Humidity Accuracy (Typical)</b>	±5% RH	±2% RH	±2% RH
<b>Temperature Accuracy (Typical)</b>	Not specified in source	±0.3°C	±0.2°C
<b>Supply Voltage Range</b>	1.5V - 3.6V	1.5V - 3.6V	3V - 5.5V
<b>Power Consumption (Sleep)</b>	Not specified	~0.14 µA	~0.14 µA (estimated based on similar operation)
<b>Interface</b>	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C
<b>Filter Option</b>	HTU20D(F) option available	HTU21D(F) option available	HTU31D(F) option available

<sup>1</sup>: The SHT20, HTU20, Si702, GY-20 are different manufacturers' versions of essentially the same I<sup>2</sup>C digital humidity and temperature sensor chip, designed to be hardware- and software-compatible. The GY-20 is a generic breakout board that uses one of these chips.

<sup>2</sup>: The SHT21, HTU21, Si7021, GY-21, GY-213V, HDC1080 are very similar digital humidity and temperature sensor chips from different manufacturers (Sensirion, Measurement Specialties, and Silicon Labs, respectively), while the GY-21 is a generic breakout board that uses one of these chips. They are largely interchangeable in hardware and software for most general-purpose applications.

<sup>3</sup>: The SHT31, HTU31, Si7031, and GY-31 are high-accuracy digital temperature and humidity sensor chips from different manufacturers (Sensirion, TE Connectivity, and Silicon Labs, respectively) that are designed to be largely interchangeable. The GY-31 is a generic name for a breakout board that typically uses the SHT31 chip.

## Arduino & HTU31D

To read the HTU31D, the most reliable method is to use the **Adafruit HTU31D** Library. Compared to

the older HTU21D, this sensor handles a wider voltage range (3V–5.5V) and offers even better precision.

## Wiring (I<sup>2</sup>C)

- **VIN:** 3.3V or 5V
- **GND:** Ground
- **SCL:** Pin A5 (on Uno/Nano)
- **SDA:** Pin A4 (on Uno/Nano)
- **ADR Pin:** Leave disconnected for default address **0x40**. Connect to VIN for 0x41.

## Arduino Example Code

Install the **Adafruit HTU31D** and **Adafruit BusIO** libraries via the Arduino Library Manager.

```
#include <Wire.h>
#include "Adafruit_HTU31D.h"

Adafruit_HTU31D htu = Adafruit_HTU31D();

void setup() {
  Serial.begin(115200);
  while (!Serial) delay(10);

  Serial.println("HTU31D test");

  if (!htu.begin(0x40)) { // Use 0x41 if ADR pin is tied to High
    Serial.println("Couldn't find sensor!");
    while (1);
  }
}

void loop() {
  sensors_event_t humidity, temp;

  // Get both temperature and humidity at once
  htu.getEvent(&humidity, &temp);

  Serial.print("Temp: ");
  Serial.print(temp.temperature);
  Serial.print(" C \t");

  Serial.print("Humidity: ");
  Serial.print(humidity.relative_humidity);
  Serial.println(" %");

  delay(1000);
}
```

## Advanced Features

The HTU31D includes a built-in heater to dry the sensor if it accumulates condensation. You can toggle it in your code:

- `htu.enableHeater(true)`; Turn on heater
- `htu.enableHeater(false)`; Turn off heater

## Resolution Settings

You can optimize for speed or precision using `htu.setResolutions(temp_res, hum_res)`.

- **Temperature:** 0.012°C to 0.04°C resolution.
- **Humidity:** 0.01% to 0.02% resolution.

## I<sup>2</sup>C topics on lamaPLC

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[communication, i2c, sensor, modul, pressure, cfsensor, xgzp68xx, xgzp6810d, xgzp6857d, xgzp6859d, xgzp6887d, xgzp6897d, xgzp6899a, piezoresistive, capacitive](#)
  
- [Magnetic angle sensors](#)

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[magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
  
- [SSH1106/SSD1306 OLED Display with I<sup>2</sup>C communication](#)

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[i2c, oled, display, ssd1306, sh1106, ssh1106, arduino, cmos](#)

[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](#)

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