

# lamaPLC: TM1637 7-segment display



The TM1637 module is a driver for 4-digit 7-segment displays. These chips are standard in inexpensive display units. They communicate with the processor using an **I<sup>2</sup>C-like protocol**. The implementation relies entirely on software emulation and uses no specialized hardware, aside from GPIO pins. It is assumed that pull-up resistors are present, typically integrated into the display module.

- Operating voltage: 3.3 – 5 V DC
- Maximum current draw: 80mA
- Reverse polarity protection: Yes

## Wiring Diagram

TM1637 Pin	Arduino	Pin Description
GND	GND	Ground
VCC	5V or 3.3V Power	(3.3V–5.25V DC)
DIO	Digital Pin 3	Data Input/Output (configurable)
CLK	Digital Pin 2	Clock Input (configurable)



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## Required Library

Install the **TM1637Display** library by Avishay Orpaz through the Arduino IDE Library Manager (Sketch > Include Library > Manage Libraries...)

## Arduino code

This code initializes the display, sets the brightness, and loops through a simple counter.

```
#include <TM1637Display.h>
```

```
// Define the connections
#define CLK 2
#define DIO 3

// Create a display object
TM1637Display display(CLK, DIO);

void setup() {
  display.setBrightness(0x0f); // Set brightness (0x00 to 0x0f)
  display.clear();           // Clear the display
}

void loop() {
  // Show a static number
  display.showNumberDec(1234);
  delay(2000);

  // Counter loop
  for (int i = 0; i <= 100; i++) {
    display.showNumberDec(i);
    delay(100);
  }

  display.clear();
  delay(1000);
}
```

## Sources

[Arduino Doc TM1637 library](#)

## 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	bmp280, aht20, temperature, humidity, pressure, sensor, arduino, oled, sh1106, arduino code
<ul style="list-style-type: none"><li>• <a href="#">lamaPLC project: Arduino - Vibration sensors</a></li></ul>	2026/04/15 17:21	vibration, sensor, piezoelectric, mems, eddy-current, electrodynamic, gxfm0459, ldtm-028k, arduino, arduino code
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• lamaPLC: A0221AU / A02YYUW Waterproof Ultrasonic Distance Sensor with UART communication	2026/04/23 21:52	a0221au, a02yyuw, waterproof, ultrasonic, distance, sensor, uart, ip67, serial, sen0311, dfrobot
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• LamaPLC: CJMCU-6814 combined gas sensor module for CO, NO <sub>2</sub> , NH <sub>3</sub>	2026/04/23 21:52	analog, cjmcu, cjmcu-6814, mics6814, mics-6814, sensor, arduino, code, carbon monoxide, co, ammonia, nh <sub>3</sub> , nitrogen dioxide, no <sub>2</sub>
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• <a href="#">Magnetic angle sensors</a>	2026/03/05 21:19	<a href="#">magnetic angle sensor</a> , <a href="#">magnetic flux</a> , <a href="#">sensor</a> , <a href="#">spi</a> , <a href="#">i2c</a> , <a href="#">pwm</a> , <a href="#">communication</a> , <a href="#">modul</a> , <a href="#">as5047p</a> , <a href="#">as5600</a> , <a href="#">mt6701</a> , <a href="#">mt6816</a> , <a href="#">mt6835</a> , <a href="#">tle5012b</a> , <a href="#">amr</a> , <a href="#">gmr</a> , <a href="#">tmr</a> , <a href="#">anisotropic magnetoresistive</a>
• <a href="#">NT18B07: 7 Kanal RS485 Temperatur Sensor with Modbus RTU</a>	2026/02/14 18:49	<a href="#">nt18b07</a> , <a href="#">sensor</a> , <a href="#">modbus</a> , <a href="#">rtu</a> , <a href="#">rs-485</a> , <a href="#">communication</a> , <a href="#">platine</a>
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