|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LCD PIN** | **PIN DESCRIPTION** | **POT PIN** | **ARDUINO PIN** | **ESP32 PIN** |
|  |  |  | Remember to use a 5v LCD | Remember to use a 3.3v LCD |
| 1 | GND | 3 (Terminal) |  |  |
| 2 | VCC |  | 5v | 3.3v |
| 3 | VO | WIPER (2) |  |  |
|  |  | 1 (TERMINAL) | 5v | 3.3v |
| 4 | RS |  | 12 | 22 |
| 5 | RW |  | GND | GND |
| 6 | E |  | 11 | 23 |
| 7 | DB0 |  |  |  |
| 8 | DB1 |  |  |  |
| 9 | DB2 |  |  |  |
| 10 | DB3 |  |  |  |
| 11 | DB4 |  | 5 | 5 |
| 12 | DB5 |  | 4 | 18 |
| 13 | DB6 |  | 3 | 19 |
| 14 | DB7 |  | 2 | 21 |
| 15 | LED |  | 5v Via 220 OHMS Resistor | 3.3v Via 220 OHMS Resistor |
| 16 | LED |  | GND | GND |

**CONNECTING THE LCD 16X2 (or 24x4) TO ARDUINO OR ESP32 (WEMOs LOLIN)**

ARDUINO initialize code:

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

ESP32 initialize code:

LiquidCrystal lcd (22,23,5,18,19,21);