

Arduino Flood Alert System – Complete Connections

This document lists all wiring connections for the Arduino Flood Alert System using a Water Level Sensor, LCD1602 (parallel, no potentiometer), LEDs, and a buzzer.

LCD1602 Connections (No Potentiometer)

LCD Pin	Pin Name	Connection
1	VSS	GND
2	VDD	5V
3	VO	2.2kΩ resistor to GND
4	RS	Arduino D12
5	RW	GND
6	E	Arduino D11
7–10	D0–D3	Not Connected
11	D4	Arduino D5
12	D5	Arduino D4
13	D6	Arduino D3
14	D7	Arduino D2
15	A (LED+)	5V via 220Ω resistor
16	K (LED–)	GND

Water Level Sensor Connections

Sensor Pin	Connection
VCC	5V
GND	GND
SIG	Arduino A0

LED and Buzzer Connections

Component	Arduino Pin	Notes
Green LED	D6	Use 220Ω resistor
Yellow LED	D7	Use 220Ω resistor
Red LED	D8	Use 220Ω resistor
Buzzer (+)	D9	Active or passive
Buzzer (-)	GND	

All GND connections must be tied to a common ground. This wiring is optimized for classroom use and stable operation.