

# Automatic Water Dispenser

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**Abstract:** *The automatic water dispenser is an innovative device designed to provide a contactless and efficient method of dispensing water, promoting hygiene and convenience in both public and private settings. The system utilizes an infrared (IR) sensor or ultrasonic sensor to detect the presence of a container or hand beneath the nozzle, triggering a microcontroller (such as an Arduino or Raspberry Pi) to activate a water pump. Once the container is filled or the hand is removed, the sensor signals the controller to stop the water flow, thereby minimizing wastage*

**Keywords:** Arduino, Ultrasonic Sensor, DC pump Motor, IoT, microcontroller, sensor, DLY Automation, Smart Dispensing System

