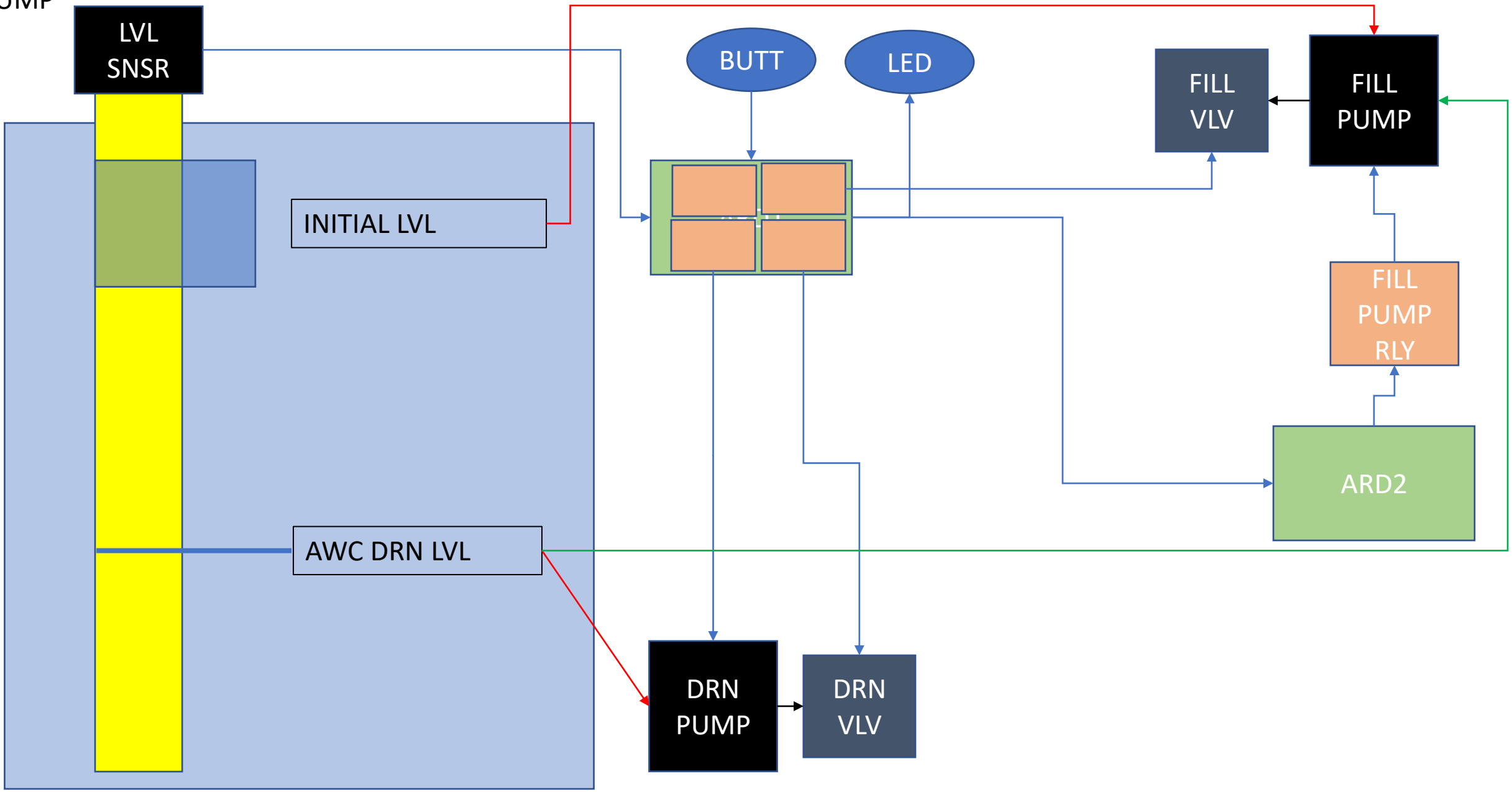
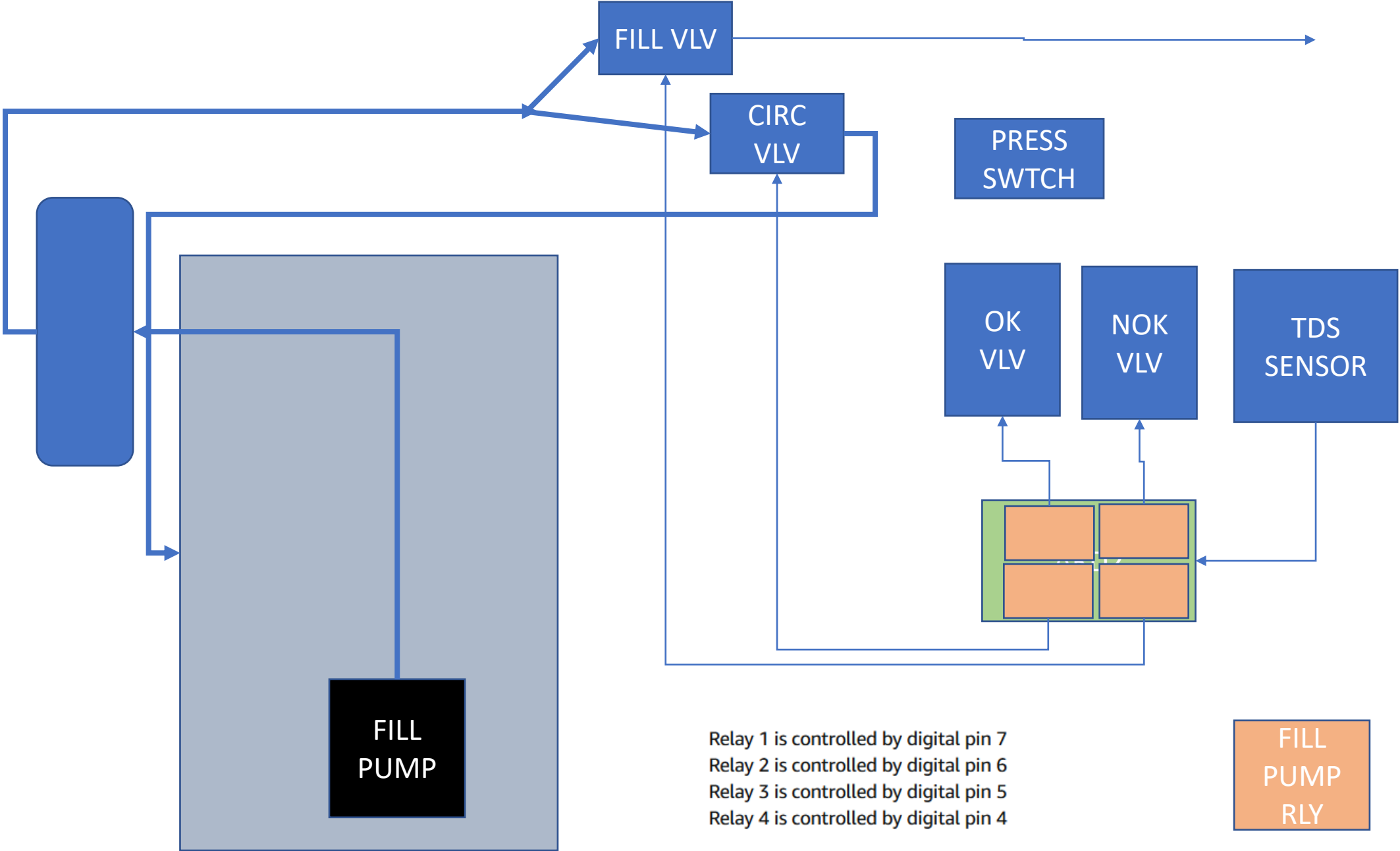


- (Manual) Enter Maintenance Mode
- (Manual) Allow levels to settle
- Press button for water change
 - ARD1 output LED – AWC INDICATOR
 - Set water height
 - ARD1 reads LVL SNSR
 - ARD defines Initial LVL from LVL SNSR reading
 - Drain Process
 - ARD closes DRN VLV RLY to open DRN VLV
 - ARD closes DRN PUMP RLY to turn on DRN PUMP
 - LVL SENSOR Outputs DRN LVL
 - ARD opens DRN VLV RLY to close DRN VLV
 - ARD opens DRN PUMP RLY to stop DRN PUMP
 - Fill Process
 - ARD1 outputs signal to ARD 2 (basement)
 - ARD 2 closes FILL PUMP RLY to turn on FILL PUMP
 - ARD 2 closes FILL VLV RLY to open FILL VLV
 - ARD1 reads LVL SNSR
 - LVL SNSR outputs Initial LVL
 - ARD1 stops signal to ARD 2
 - ARD2 opens FILL VLV RLY to close FILL VLV
 - ARD2 opens FILL PUMP Relay to stop FILL PUMP
 - Process Complete
 - ARD stops LED output – AWC INDICATOR
- (Manual) Exit Maintenance Mode

SUMP



RESERVOIR/RODI



Arduino 1

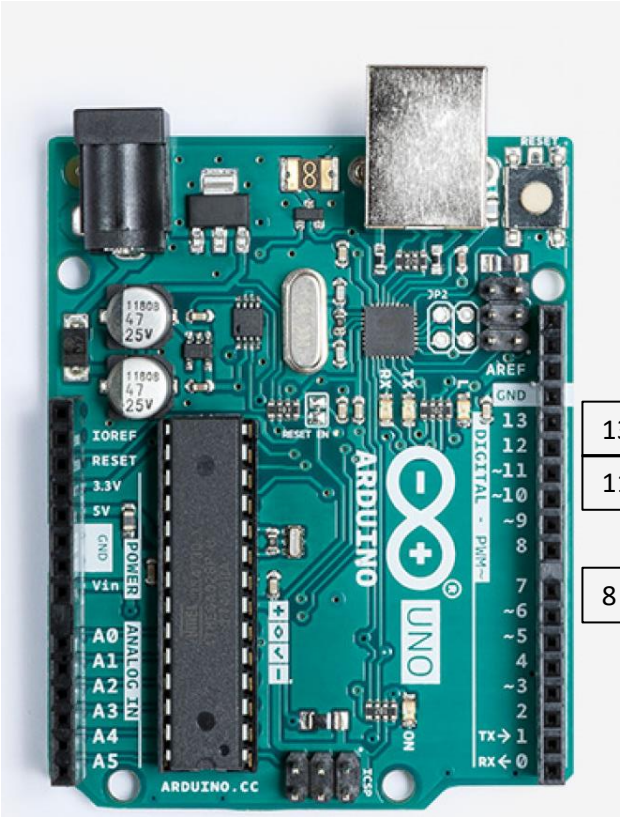
- 3 pin – Level Sensor (in)
- 2 pin – Drain Vlv (in)
- 2 pin – Drn Pump (in)
- 2 pin – Fill Cmd (Out)

3 pin – 120V (in)

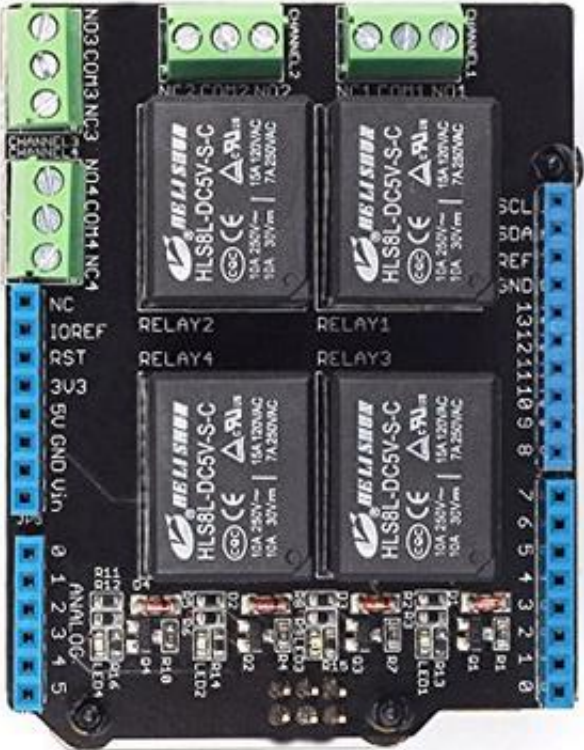
COM2 – 12V (In)	
NO2 – Drain Pump(Out)	
COM1 – 12V (In)	
NO1 – Drain VLV(Out)	

5V - Vin – Level Sensor

- GND - BUTT – Green
- GND - BUTT – Black
- GND – FillSignal –Black
- GND – Level Sensor
- GND – FILL Signal (OUT)
- A0 – Signal – Level Sensor



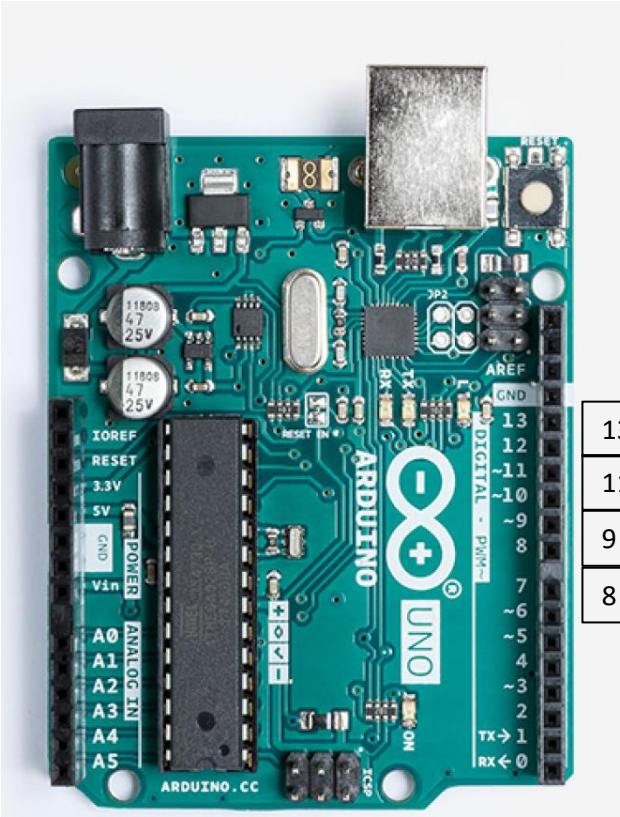
- 13 – BUTT - Green (IN)
- 11 – BUTT LED – Red (OUT)
- 8 – ARD1 – Fill Signal (OUT)



Arduino 2

- 3 pin – pressure transducer
- 3 pin – TDS meter
- 2 pin – OK VLV
- 2 pin – NOK VLV
- 2 pin – Fill VLV
- 2 pin – Circ Vlv
- 2 pin – Fill Cmd

- | |
|--------------------------------|
| 5V - Vin – TDS Meter |
| 5V – Vin – Pressure Transducer |
- | |
|---------------------------|
| GND - BUTT – Green |
| GND - BUTT – Black |
| GND – Pressure Transducer |
| GND – TDS Meter |
| GND – Fill Signal (IN) |
- | |
|------------------------------|
| A0 - Pressure Tranducer (IN) |
|------------------------------|
- | |
|-------------------------|
| A1 – Signal – TDS Meter |
|-------------------------|



- | |
|-----------------------------|
| 13 – BUTT - Green (IN) |
| 11 – BUTT LED – Red (OUT) |
| 9 – PUMP RLY (OUT) |
| 8 – ARD1 – Fill Signal (IN) |

- Red – Load
- Yellow – Ground
- Black - Neutral

- | |
|------------------------|
| NO1 – Fill Valve (Out) |
| COM3 – 12V (In)) |
- | |
|------------------------|
| NO1 – Circ Valve (Out) |
| COM4 – 12V (In)) |

- 3 pin – 120V (in)
- 3 pin – Pump (out)

- | |
|-----------------------|
| COM2 – 12V (In)) |
| NO2 – NOK Valve (Out) |
- | |
|----------------------|
| COM1 – 12V (In)) |
| NO1 – OK Valve (Out) |

