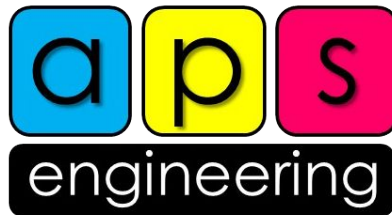
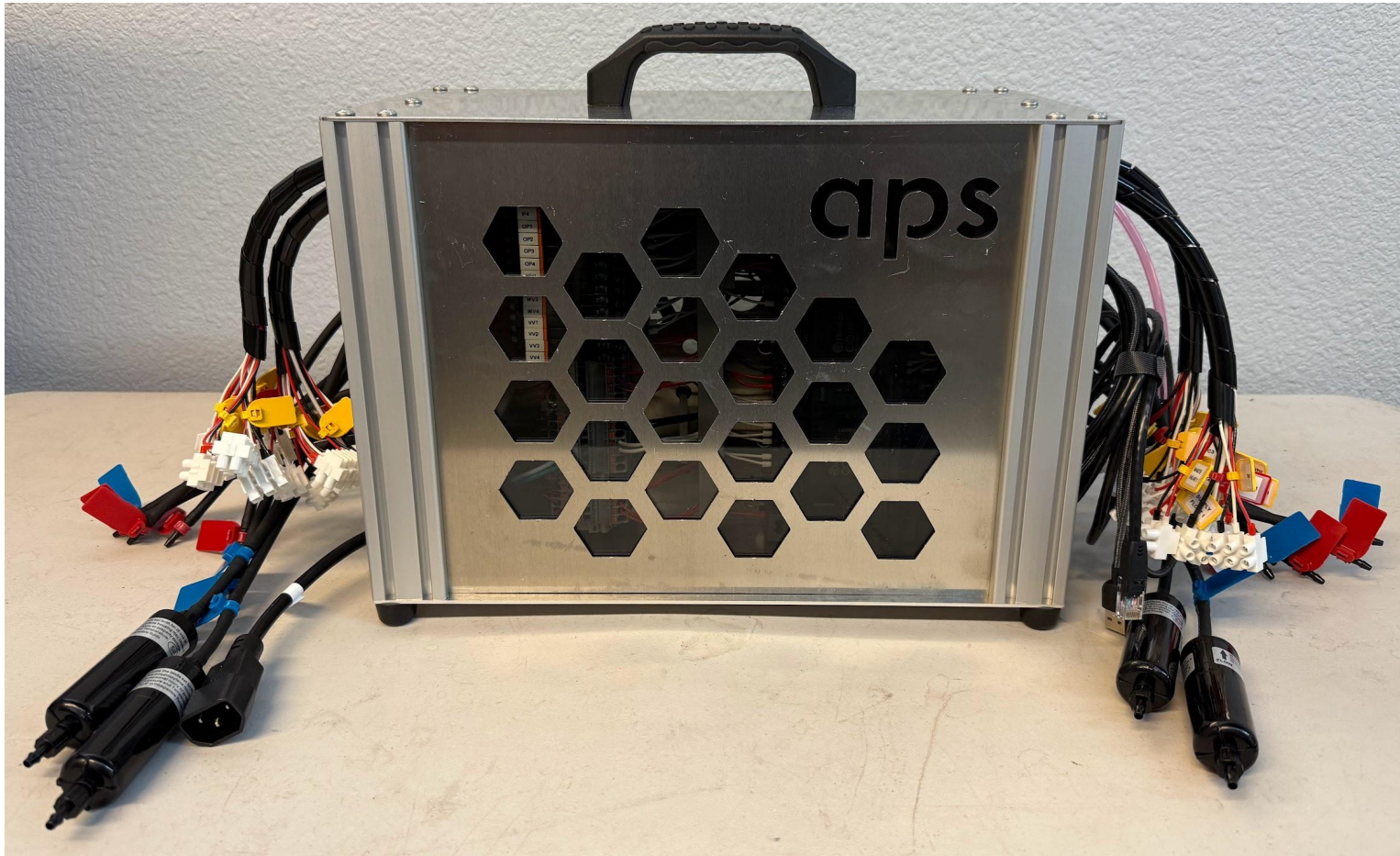


QUAD FDS SETUP

REV 1.0

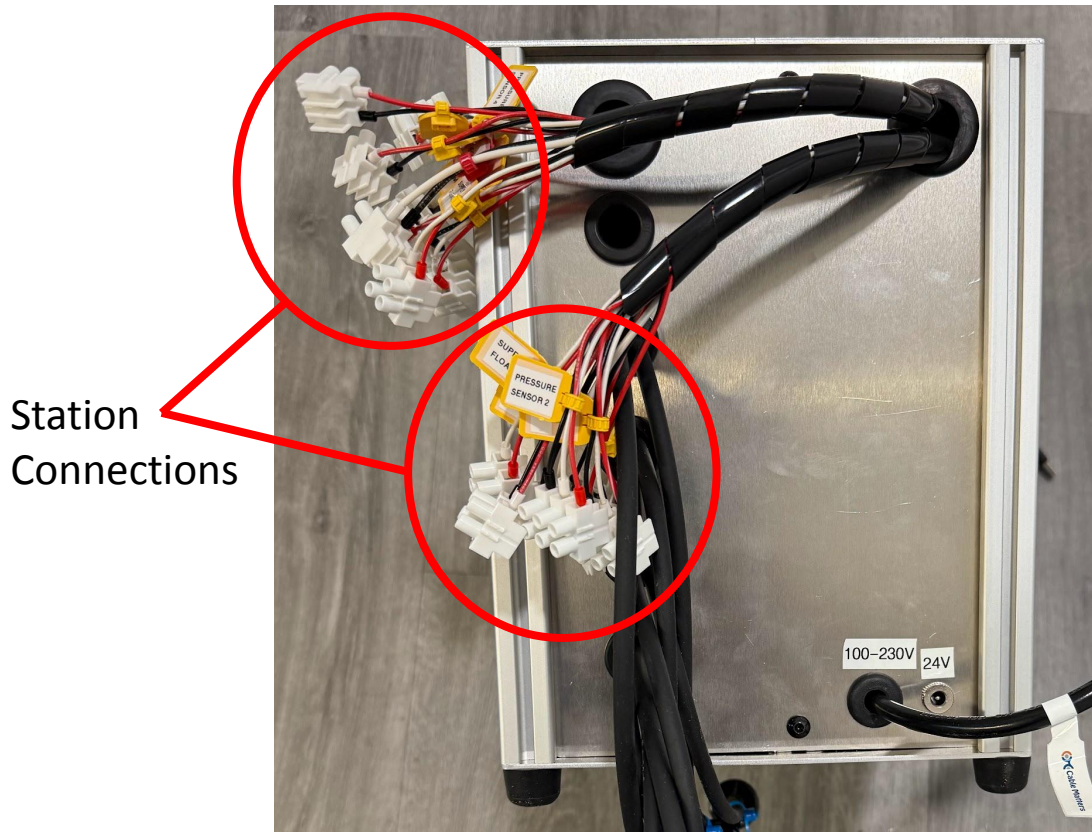


Quad IDS System



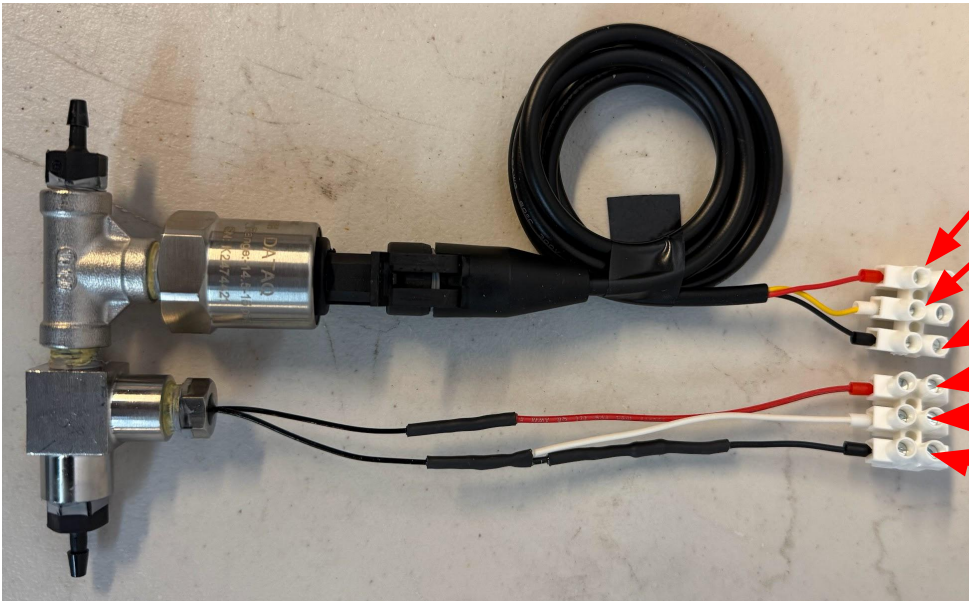
Quad IDS Wiring

Each of the 4 stations on the Quad are linked electronically through 7 different connections



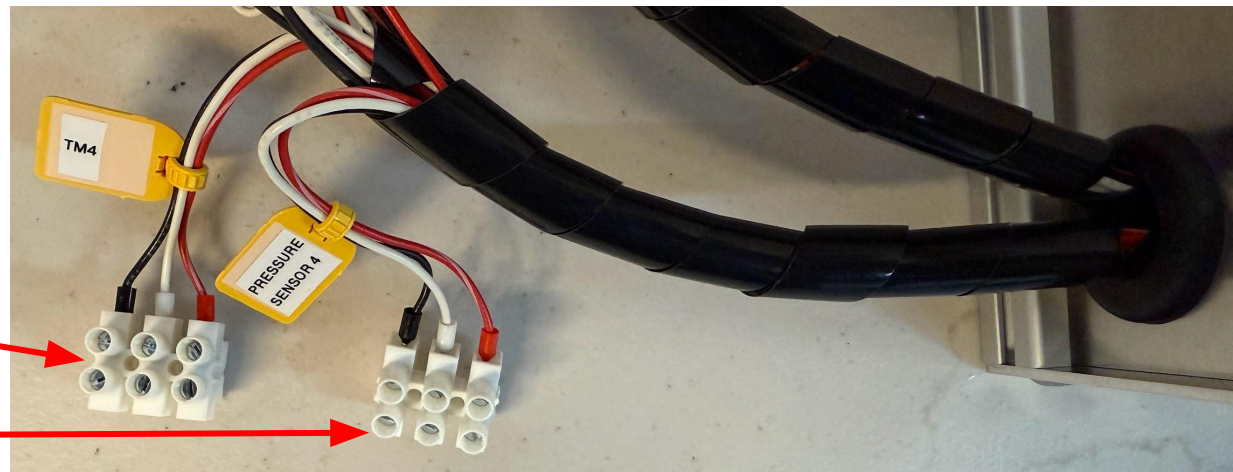
1. Pressure Sensor
2. Thermistor
3. Aux Heater Power
4. Aux Heater Thermocouple
5. Supply Float
6. Waste Valve
7. Vent Valve

Pressure Sensor and Thermistor

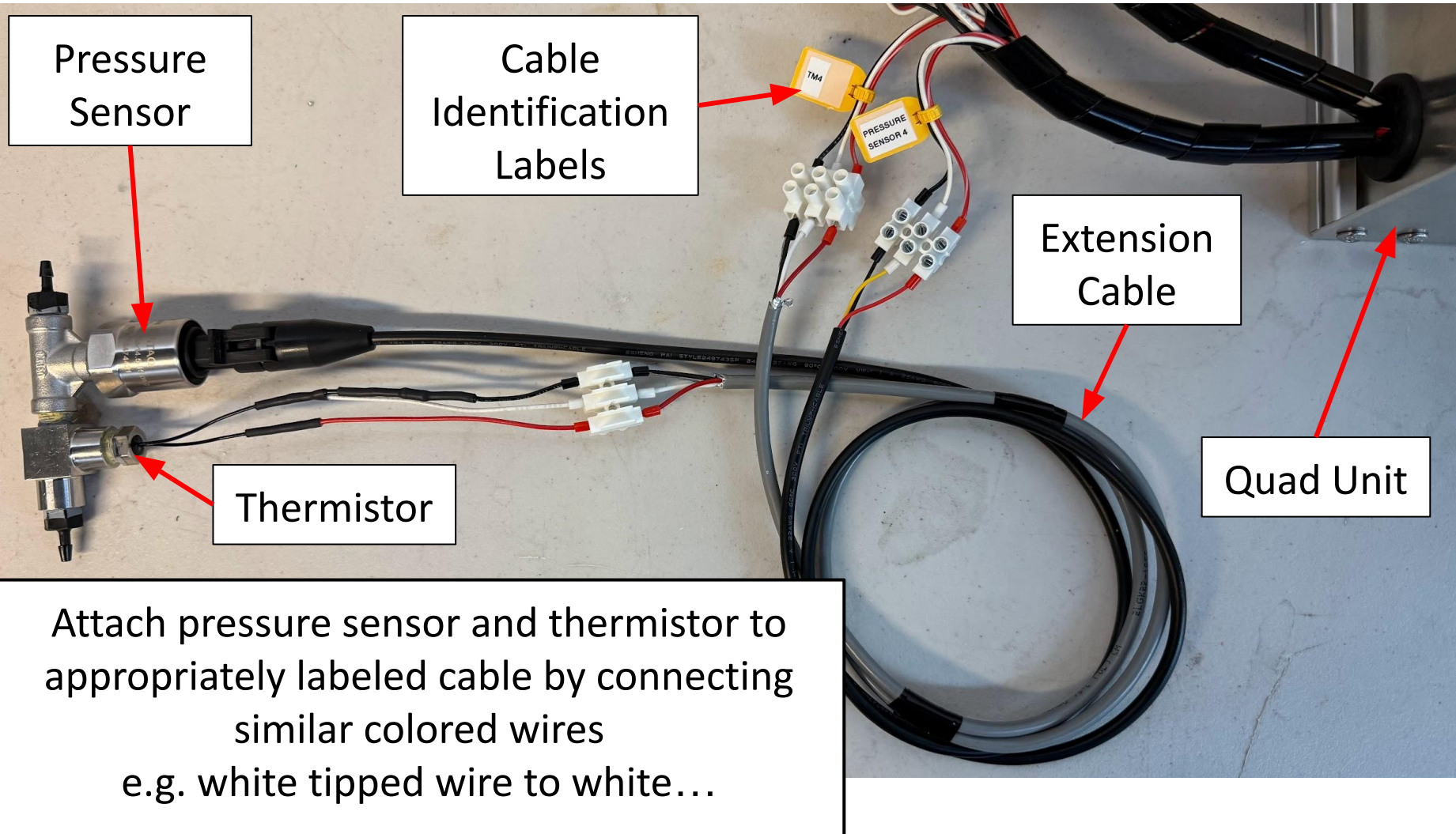


- 5V
- Pressure Sensor Signal
- Ground
- 5V
- Thermistor Signal
- Ground

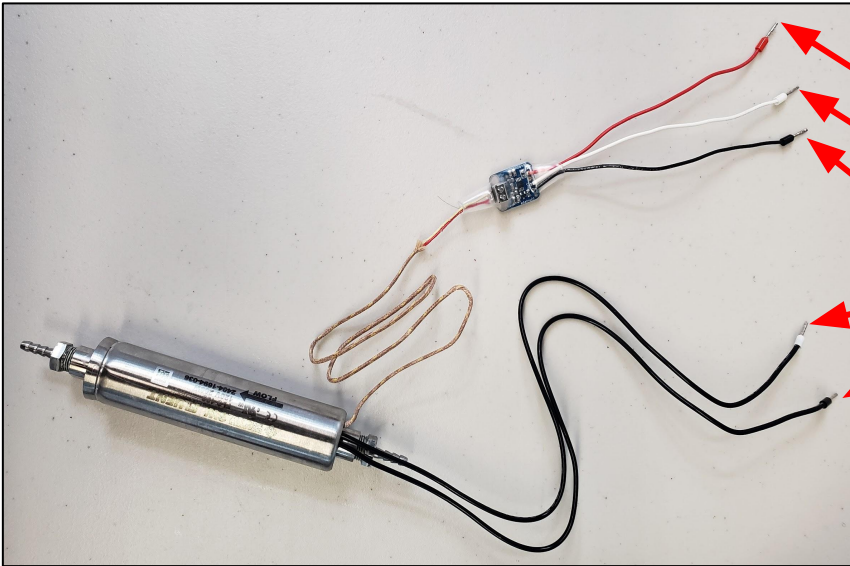
- Thermistor connector cable
- Pressure Sensor Connector Cable



Pressure Sensor and Thermistor Connection

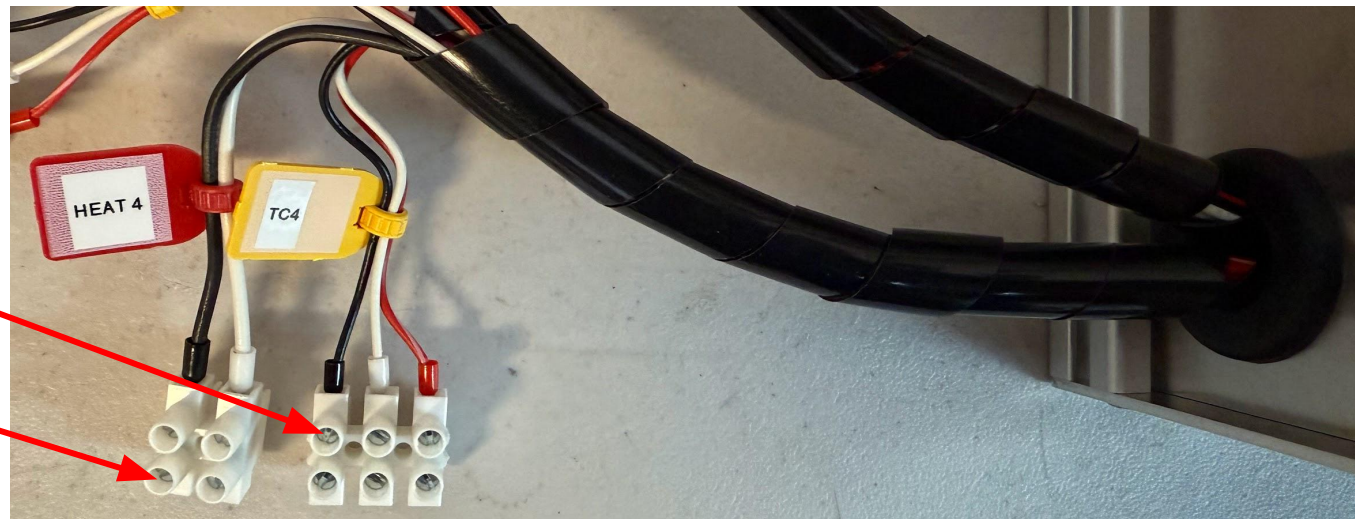


Auxiliary Heater and Thermocouple

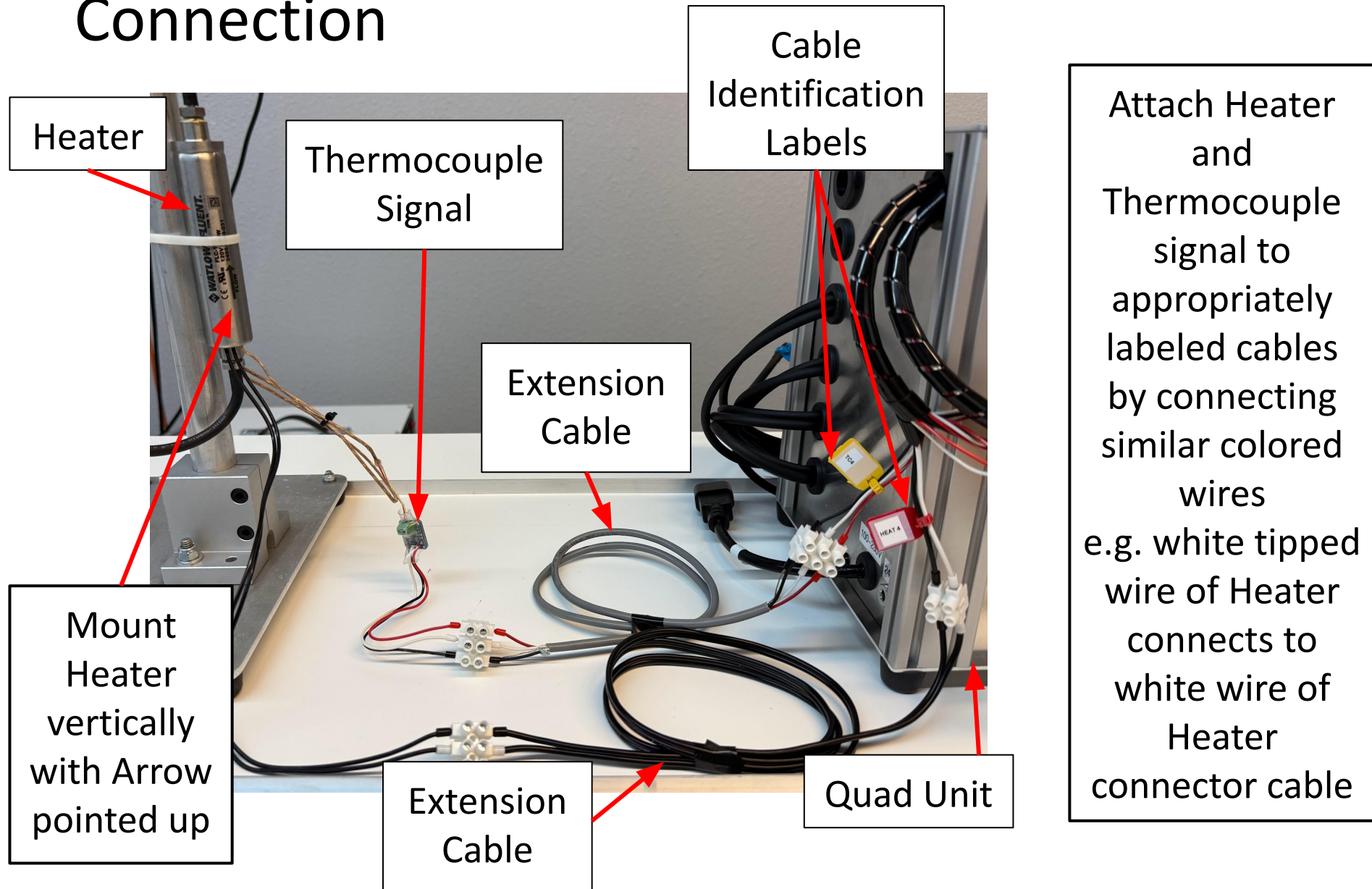


- 5V
- Thermocouple Signal
- Ground
- Neutral (white tip)
- Heater Power (black tip) (120/230V)

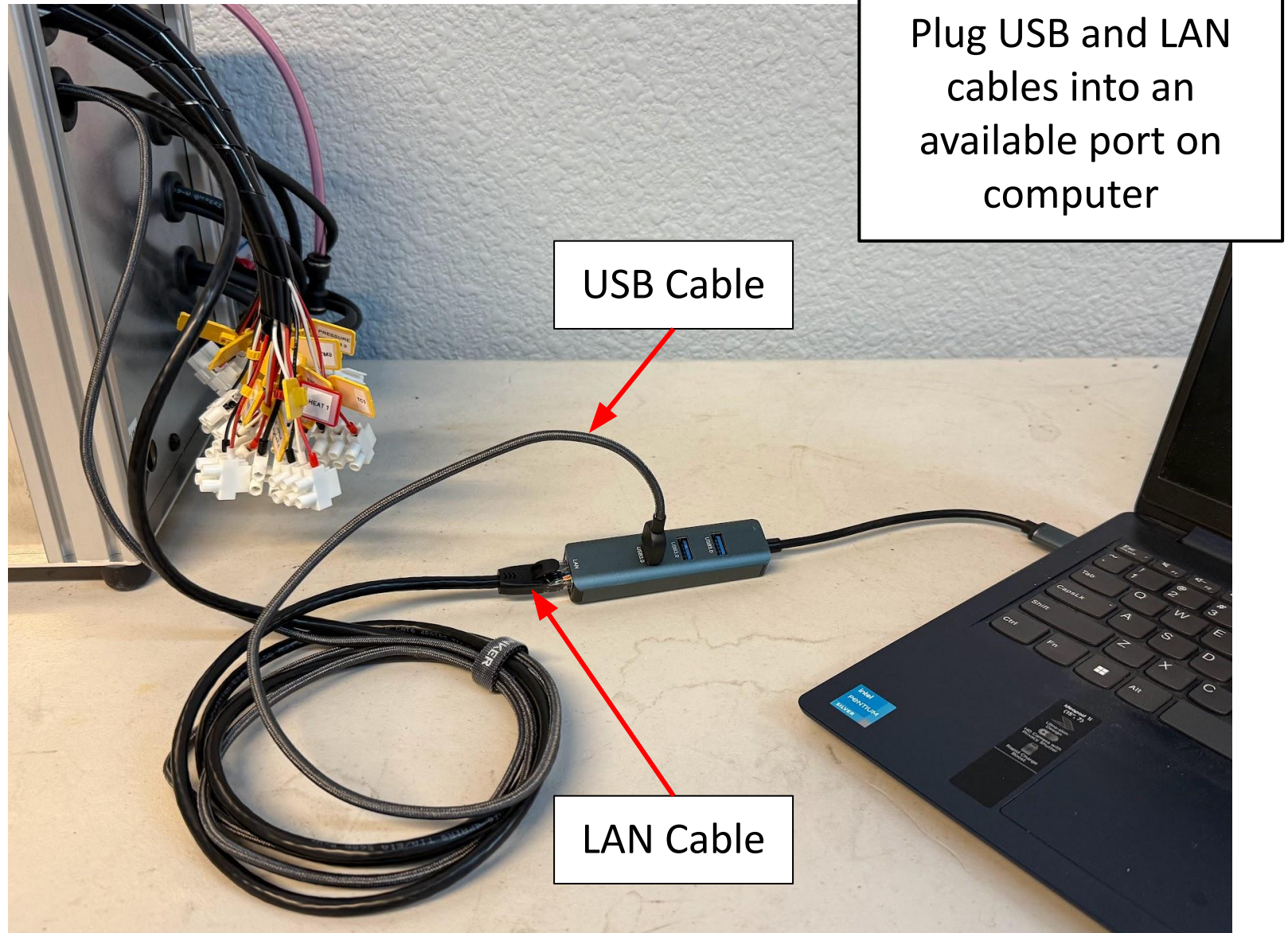
- Thermocouple Connector Cable
- Heater Connector Cable



Auxiliary Heater and Thermocouple Connection



USB (Arduino) Connection



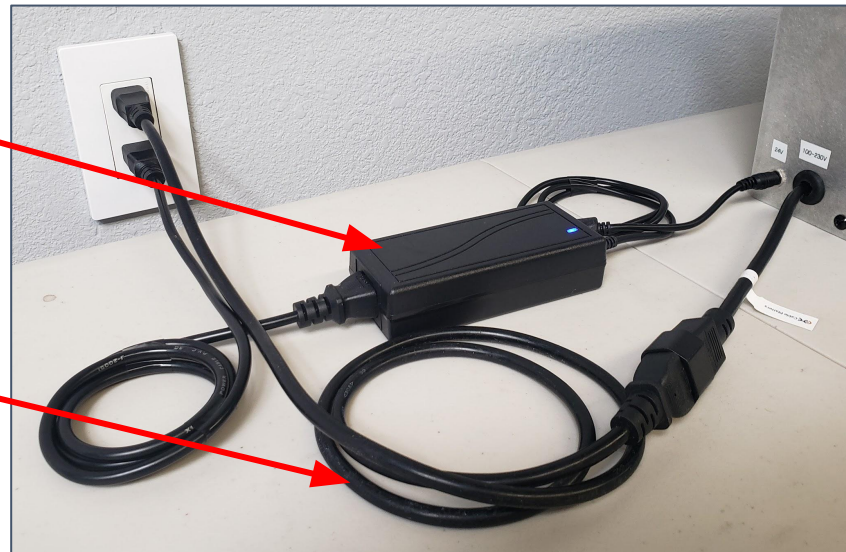
100-230V and 24V Power Supply Connections

Power Rating
Identification
Labels



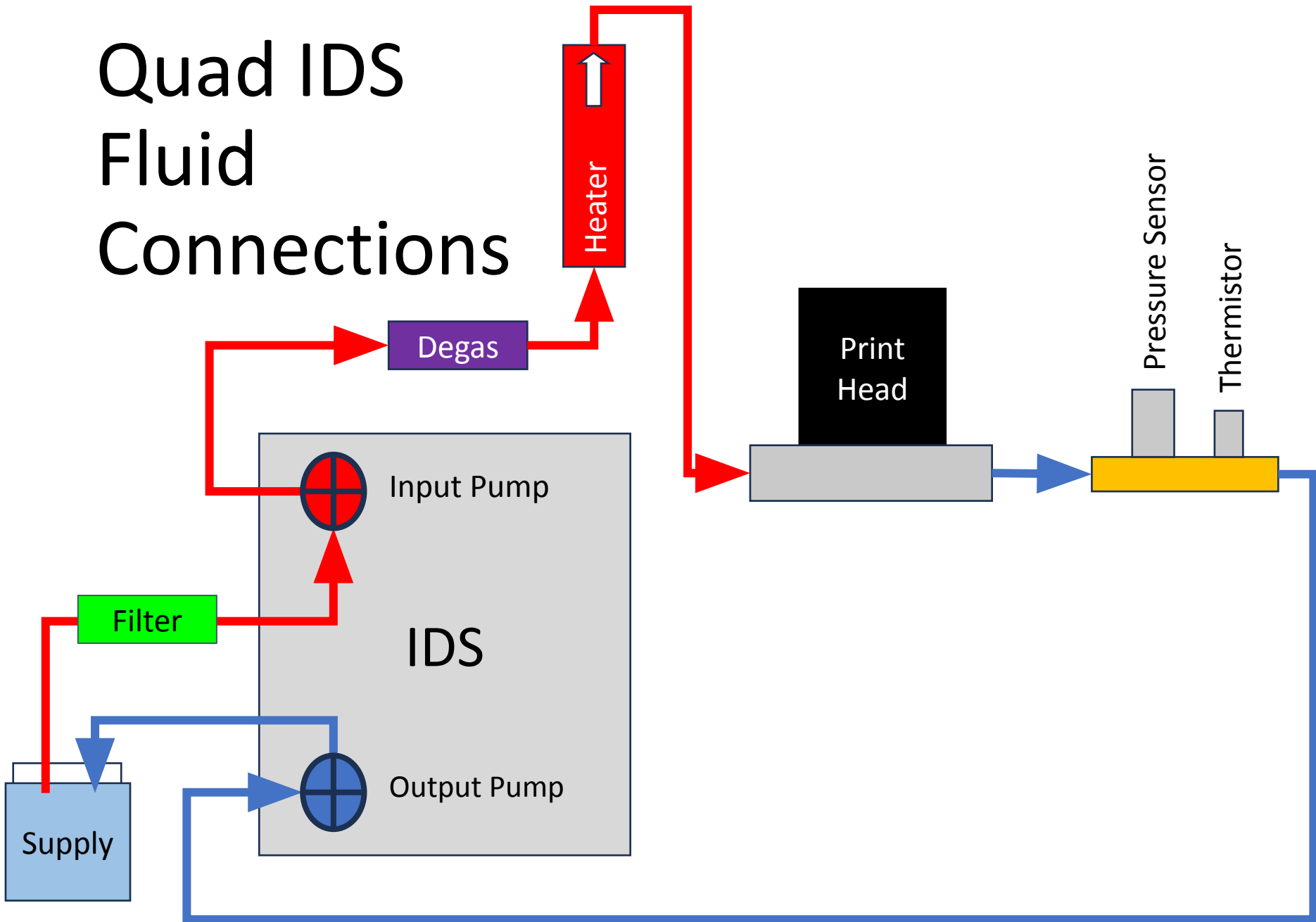
24V Power
Supply

100-230V
Cable



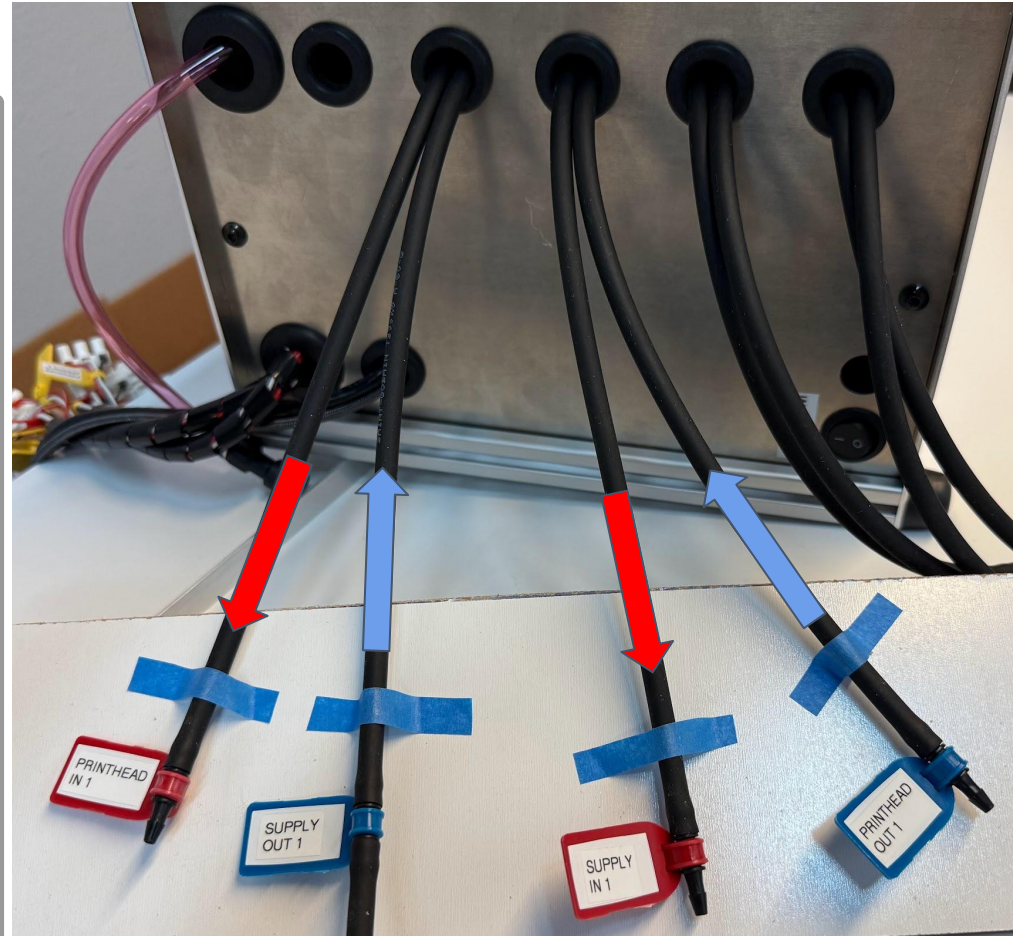
Use
provided
cables to
plug into
power

Quad IDS Fluid Connections

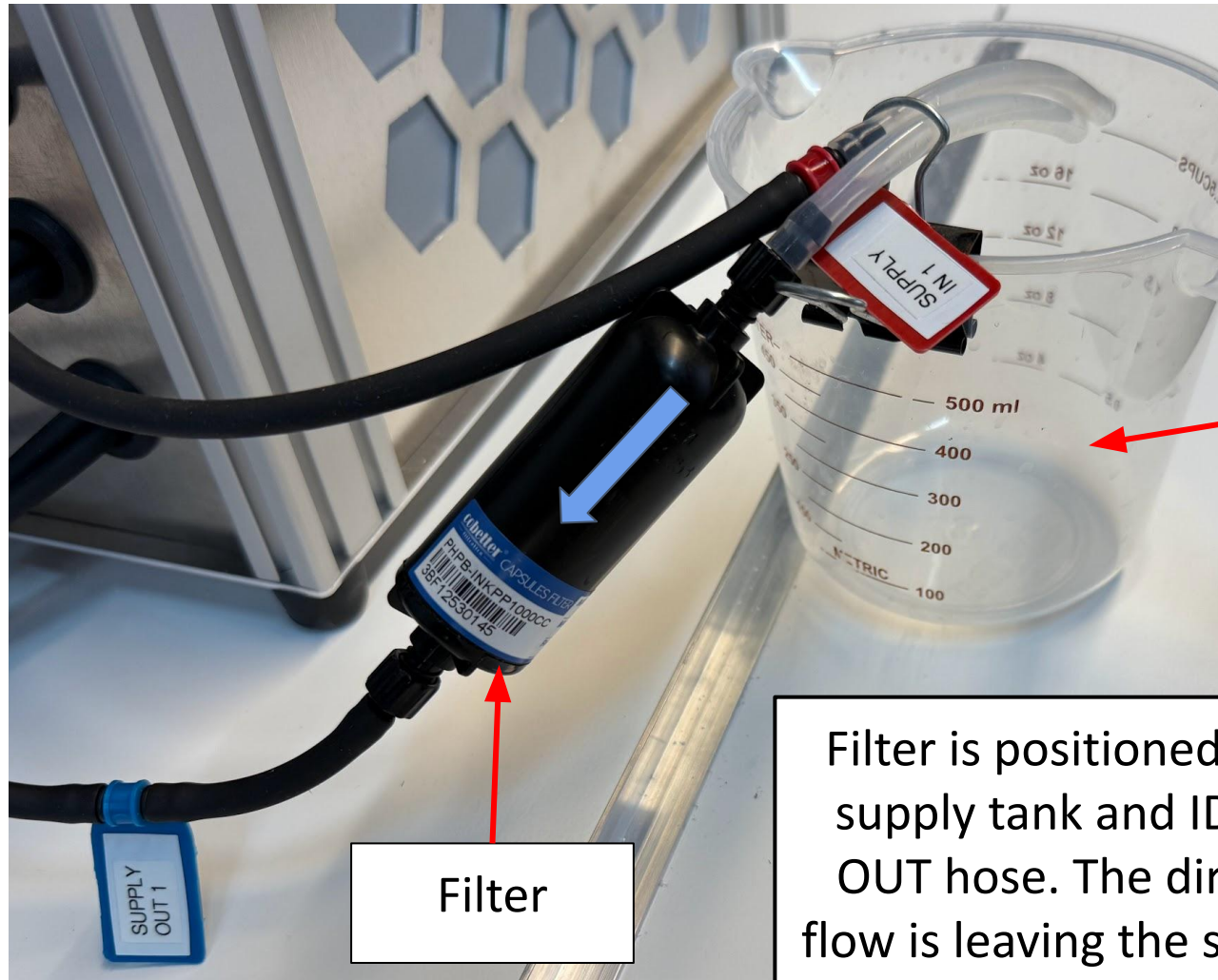


Each of the 4 stations on the Quad is linked fluidically through 4 hoses

- **SUPPLY OUT 1-**
Fluid pumped out of the supply tank at station 1
- **PRINTHEAD IN 1-**
Fluid then pumped into the printhead at station 1
- **PRINTHEAD OUT 1-**
Fluid pumped out of the printhead at station 1
- **SUPPLY IN 1-**
Fluid then pumped into the supply tank at station 1



Supply Out Hose



Supply
Tank

Filter

Filter is positioned between supply tank and IDS Supply OUT hose. The direction of flow is leaving the supply tank and entering the IDS

Printhead

Degas Module

Vacuum
Line

Mount
Heater
vertically
with Arrow
pointed up

Printhead OUT Hose

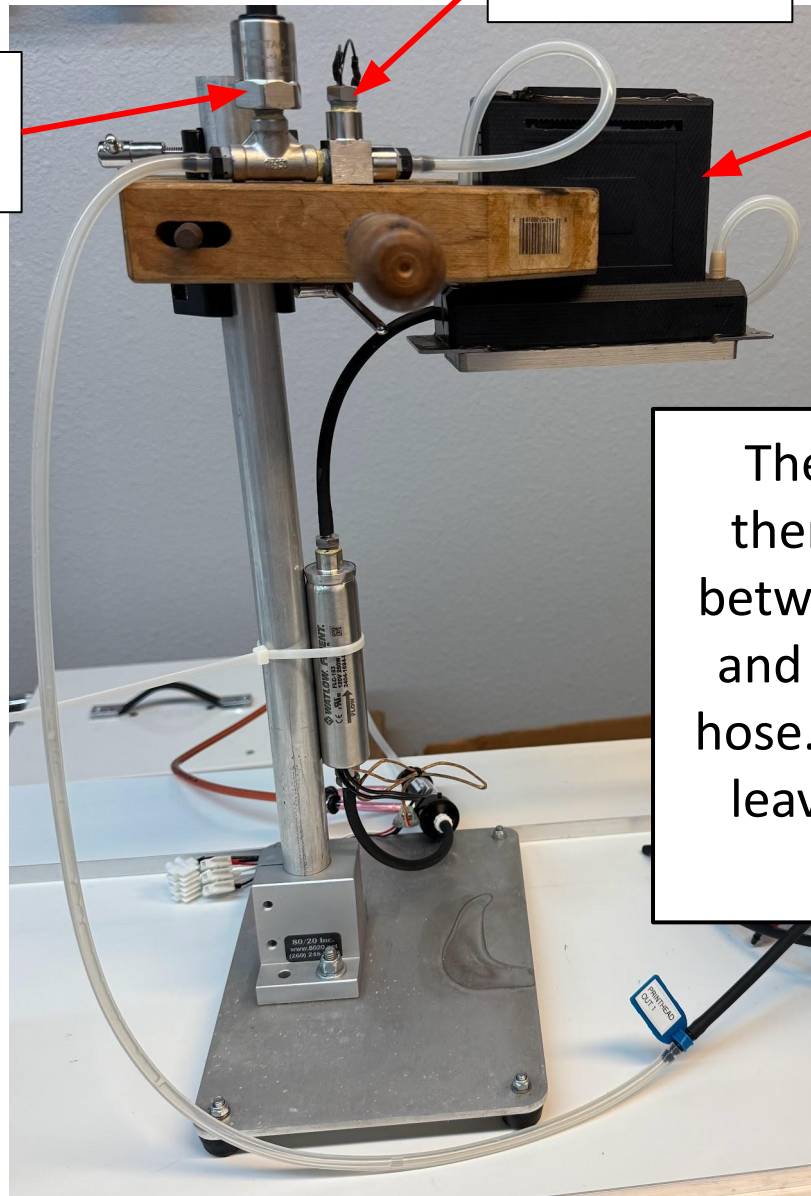
Pressure
Sensor

Thermistor

Printhead

Pressure sensor should be positioned as close to the printhead as possible and either level with or slightly above the position of the printhead

The pressure sensor and thermistor are positioned between the printhead itself and the IDS Printhead OUT hose. The direction of flow is leaving the printhead and entering the IDS

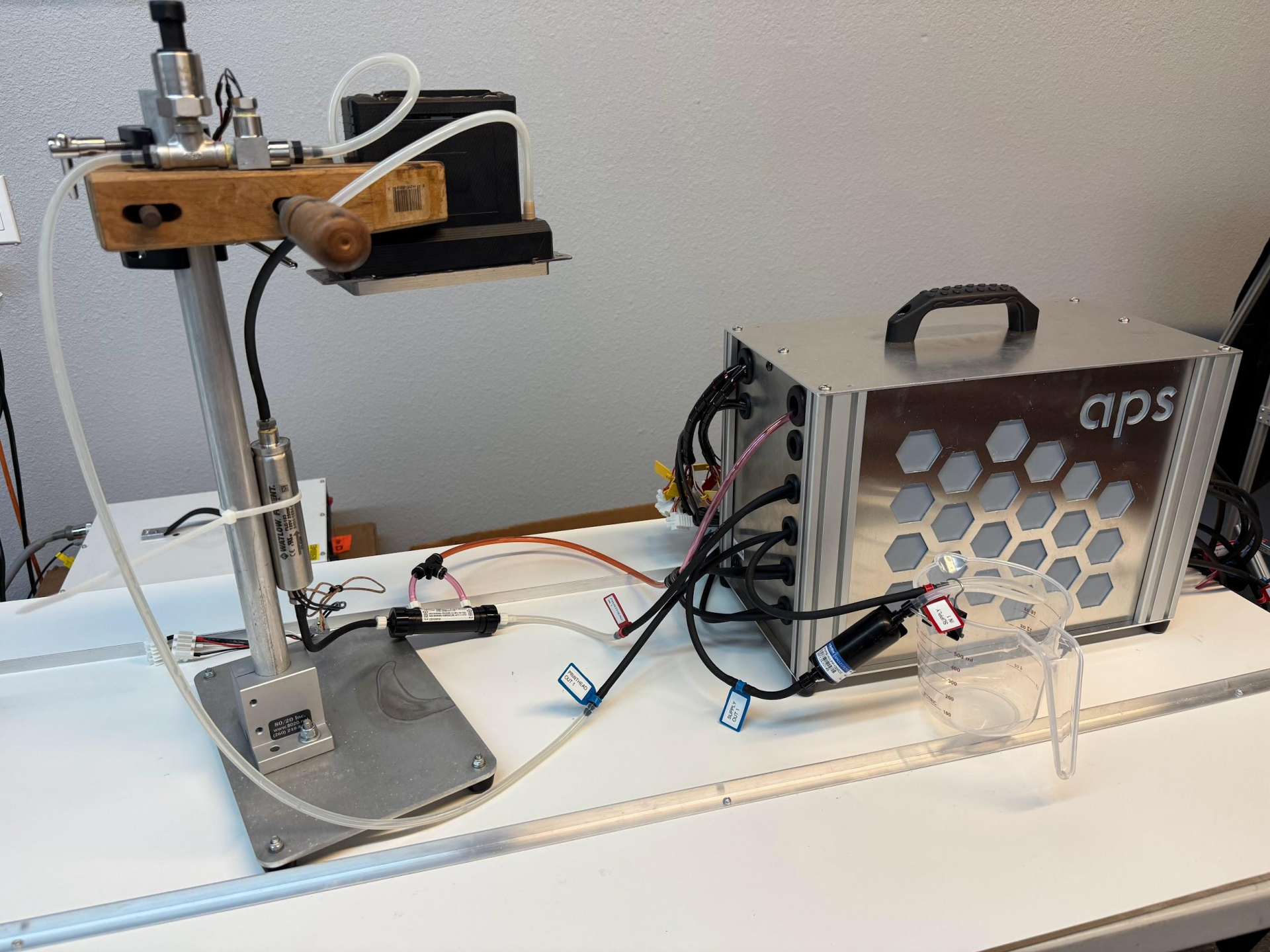


Supply IN Hose



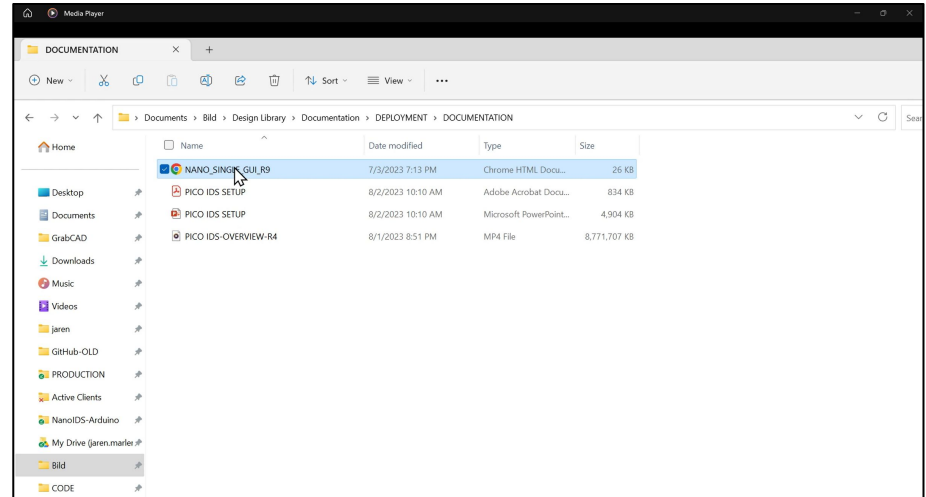
Supply
Tank

The Supply IN hose extends directly into the supply tank. The direction of flow is leaving the IDS and entering the supply tank

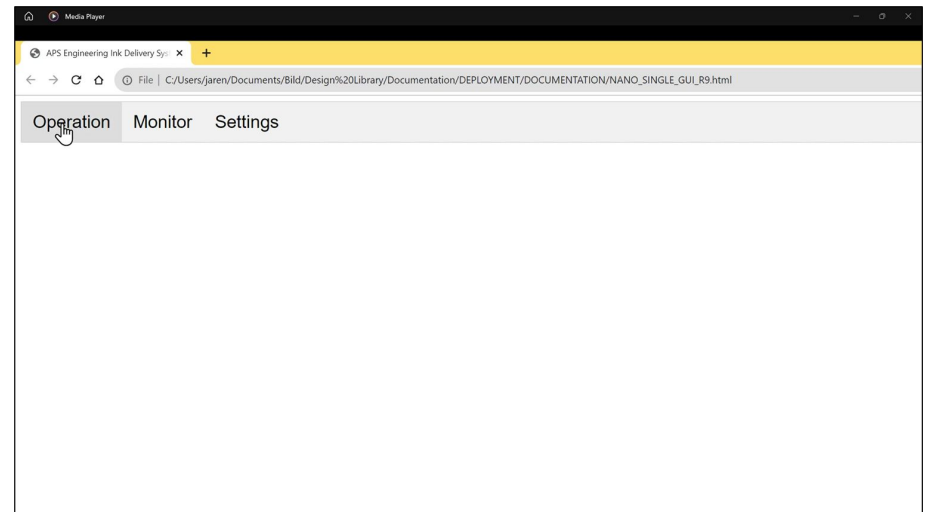


Starting the GUI

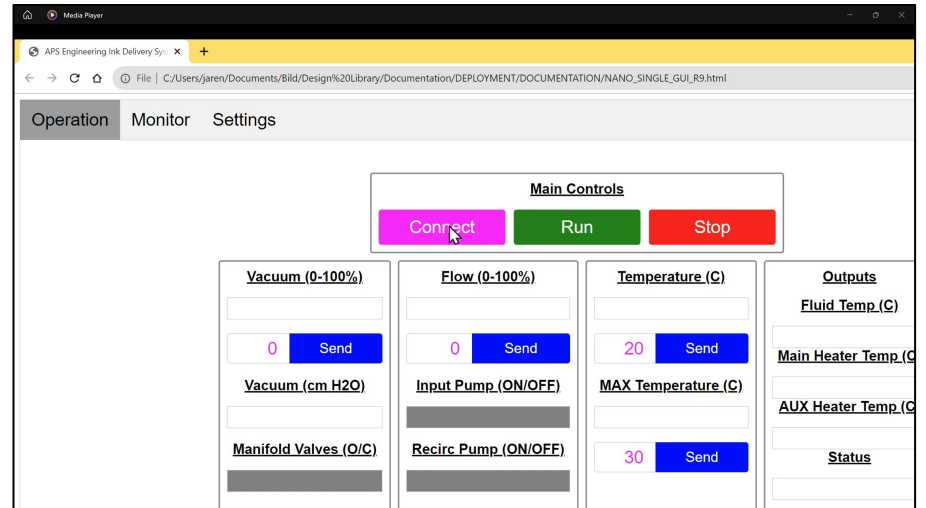
1. Run the HTML GUI File



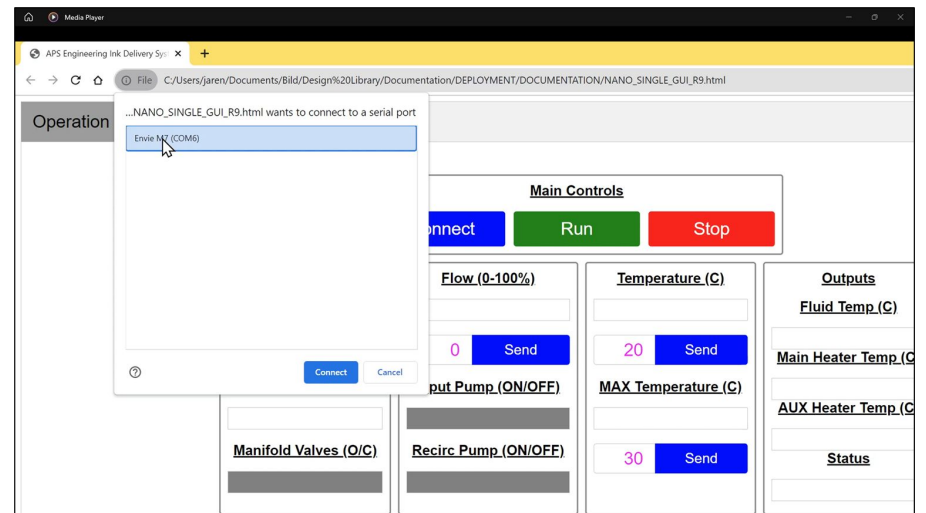
2. Click “Operation” menu



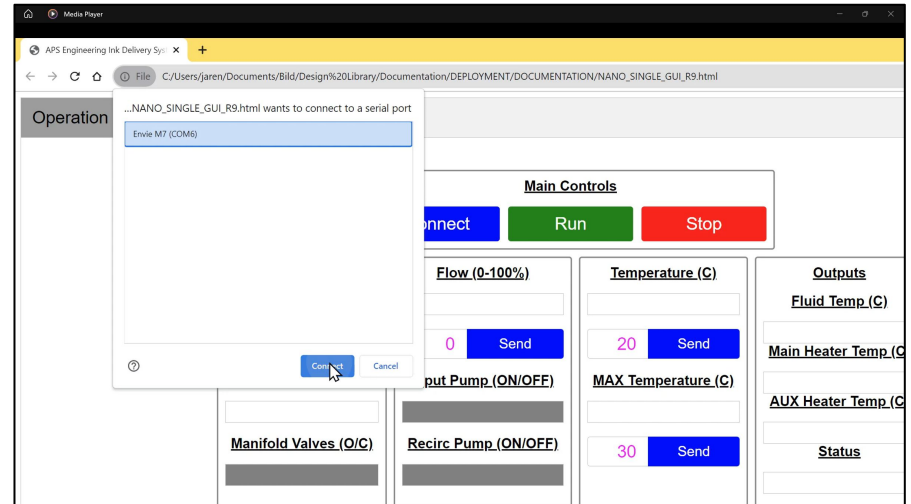
3. Click “Connect”



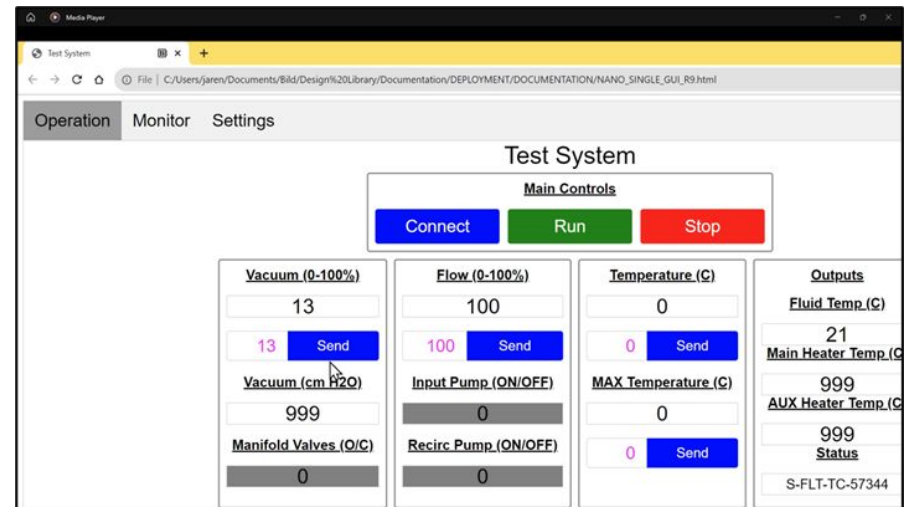
4. Select the COM port for “Envie M7” (This is the pump unit)



3. Click “Connect”



Pump Unit is connected!



- Click “Settings” Menu.
- Float Invert should be set to “1”
- If it’s set to “0” change it to “1” and press “Send” button
- Value should change

