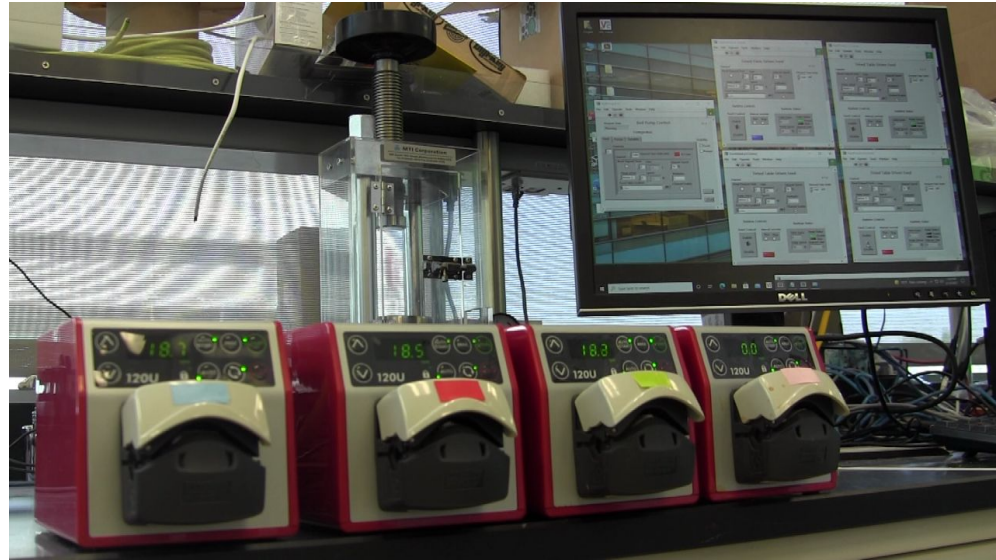


“RedPump1f” Installer

- LabVIEW-based pump control software (“RedPump1f”)
- Up to four pumps independently controllable
- Flexible feeding profiles (spreadsheet-based)
- Free access to software application, hardware list and VideoSOP!



Watson Marlow 120U

- Peristaltic pump
- Variable speed 0.1 rpm increments
- Analogue speed input; 4-20mA, 0-10V



Watson Marlow 120U “Red” Pump

T4-USB or Ethernet Multifunction DAQ Device with up to 12 Analog inputs or 16 Digital I/O, 2 Analog outputs (10-bit), and Multiple Digital counters/timers. (LabJack)

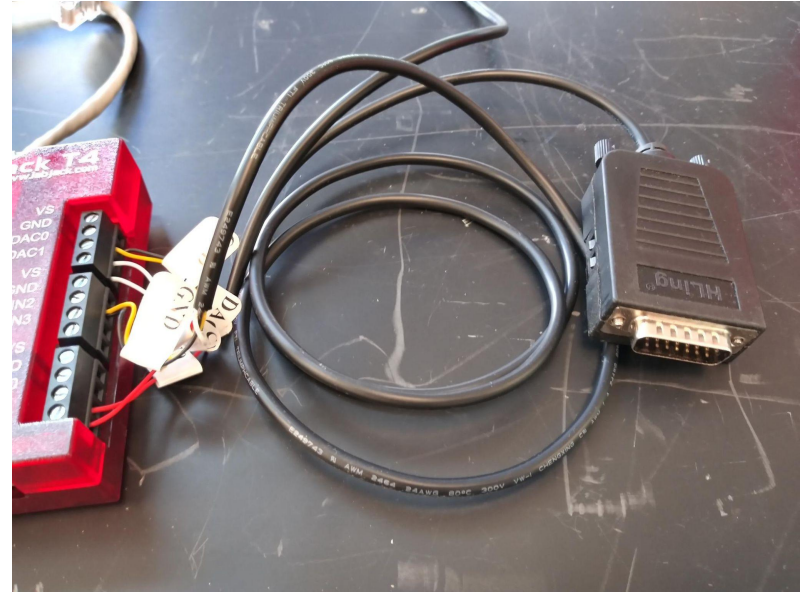
- 1x T4 device supports up to two pumps
- T4 communicates via ethernet (Unique IP!)
- Ethernet cable + USB cable included
- [Click here](#) for instructions on how to setup the T4
- Important Note: It is advised to use a different computer for the T4 configuration. Using the same computer for the T4 configuration and RedPump1f application may result in a malfunction.



T4 with Ethernet / USB cable

Communication cable (WM Pump <=> T4 Device)

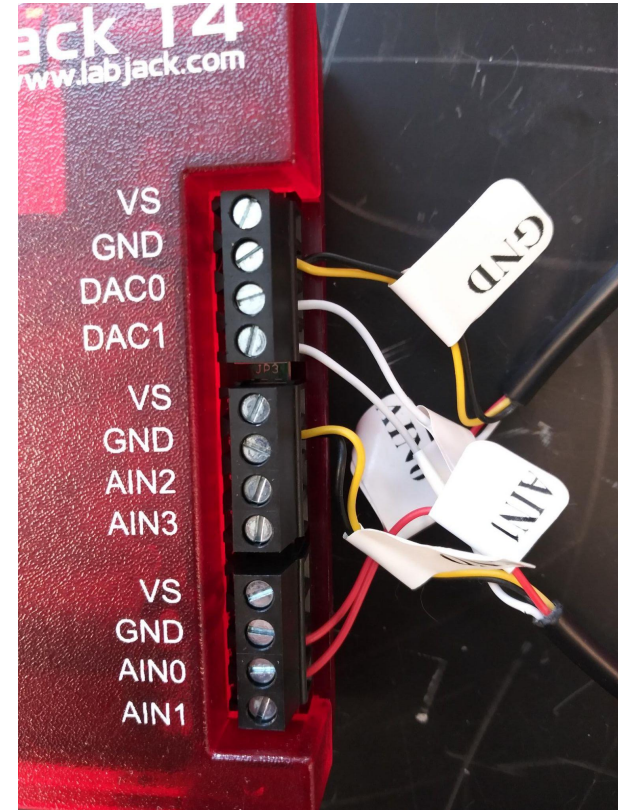
- 1x Cable per pump
- Red, Yellow/Black, White leads
- DB15 male to fly wires
- Pinout:
 - Pin2 (white) T4 DAC
 - Pin3 (black) T4 Gnd
 - Pin9 (red) T4 AIN
 - Pin10 (yellow) T4 Gnd



Communication cable (T4 <=> Pump)

Wiring Instructions (T4 <=> Communication cable):

- Primary Pump
 - Yellow/Black - Ground (GND)
 - White - DAC 0
 - Red - AIN 0
- Secondary Pump
 - Yellow/Black - Ground (GND)
 - White - DAC 1
 - Red - AIN 1
- Same scheme for third and fourth pump on second T4 device



T4 wiring for two WM pumps

Ethernet-to-USB adapter (Optional)

- Additional Ethernet adapter for easy T4 setup
- Required if no Ethernet port is available on computer



Ethernet-to-USB adapter