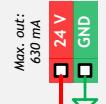


24 V power supply
TRACO TBLC-15-124



5 V power supply
TRACO TBLC-06-104



Trigger out

To camera & SprayTec

Note: active high at the microcontroller to pull the trigger signal low.

Droplet det. photodiode readout

To PDA BNC cable (??
Core mantle)

Voltage divider to convert
10 V output to 3.3 V

Droplet detection laser control

Adafruit MOSFET Driver

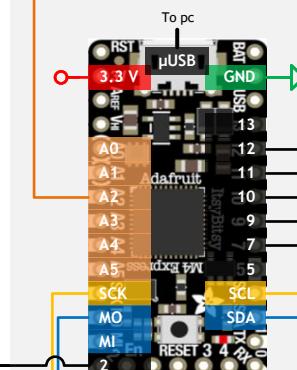
To laser
phono jack (5 V center,
GND outer)

Pressure regulator control
MIKROE 4-20 mA T-click



To press. reg.

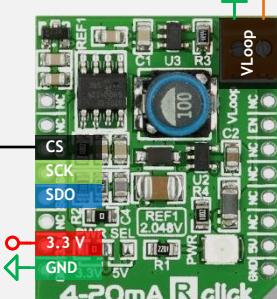
Microcontroller
Adafruit ItsyBitsy M4 Express



Humidity & temp. sensor
Adafruit SHT45

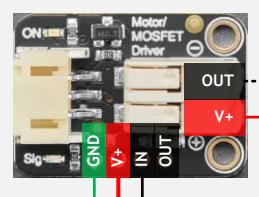


Pressure regulator readout
MIKROE 4-20 mA R-click



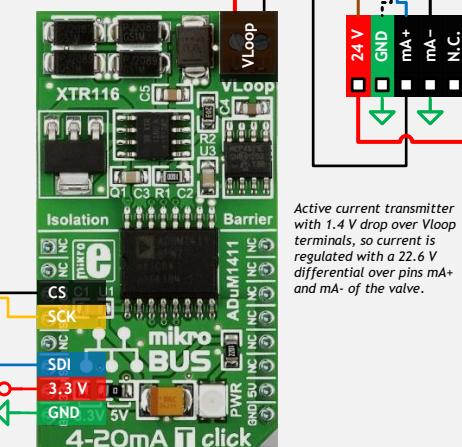
Passive current receiver
(no voltage provided,
scratched out!) - TO BE
CHECKED

Valve #1 control
Adafruit MOSFET Driver



OUT is switched to
GND when IN is high

Valve #2 control
MIKROE 4-20 mA T-click



DESCRIPTION

Wiring diagram Twente Cough Machine

DATE

2025-12-09

DRAWN BY

Tommie Verouden

URL

github.com/TFLVerouden/cough-machine-control

