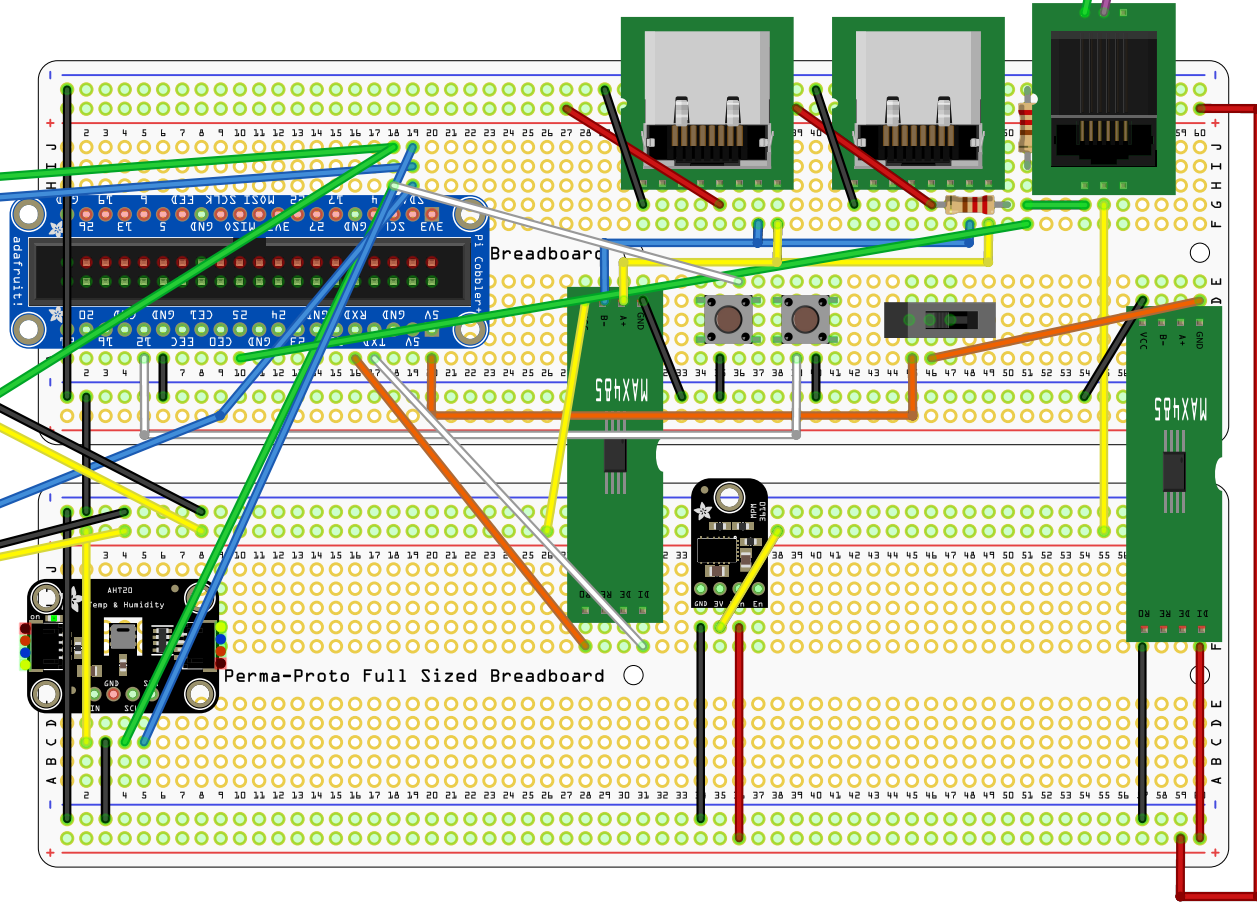
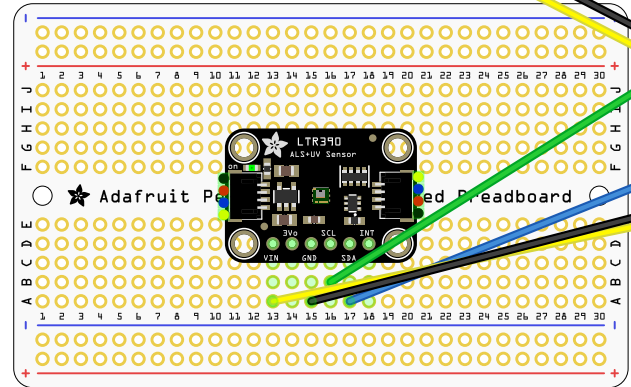
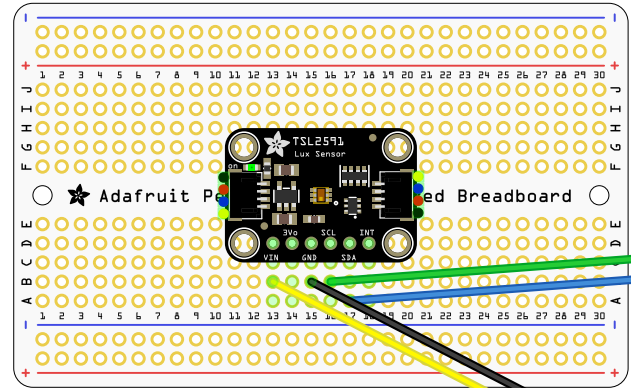


wall power to raspberry pi

SHT30
(TEMPERATURE and HUMIDITY) on RJ45
on RS485
red = +12V
black = GND
blue = B-
yellow = A+

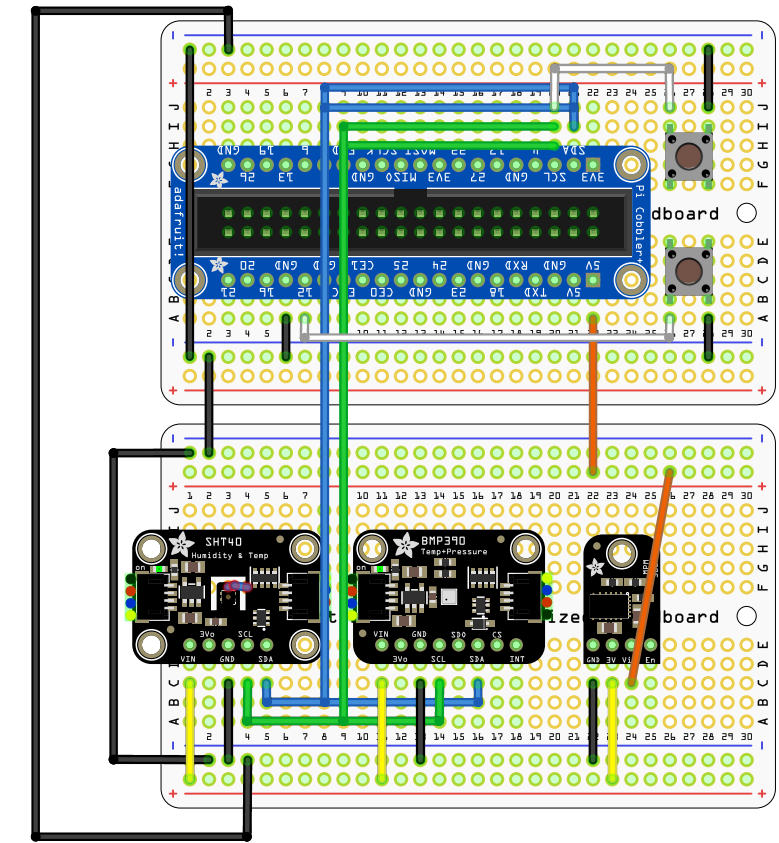
RAIN BUCKET
hall effect switch
bucket tip = switch press
rj11 plug for switch wire
15k resistor



5V power out pin
from raspberry pi goes to 12V
step up

step down
12V in (red)
3V out (yellow)
powers:
(1) RAIN switch
(2) LIGHT sensors
(3) rs485 transd.

step up
5V in (orange)
12V out (red)
powers:
(1) MODBUS
(2) step down



wall power to raspberry pi

step down
5V in (ochre)
3V out (purple)
powers:
(1) RAIN switch
(2) LIGHT sensors
(3) ADC
(4) TXB0108