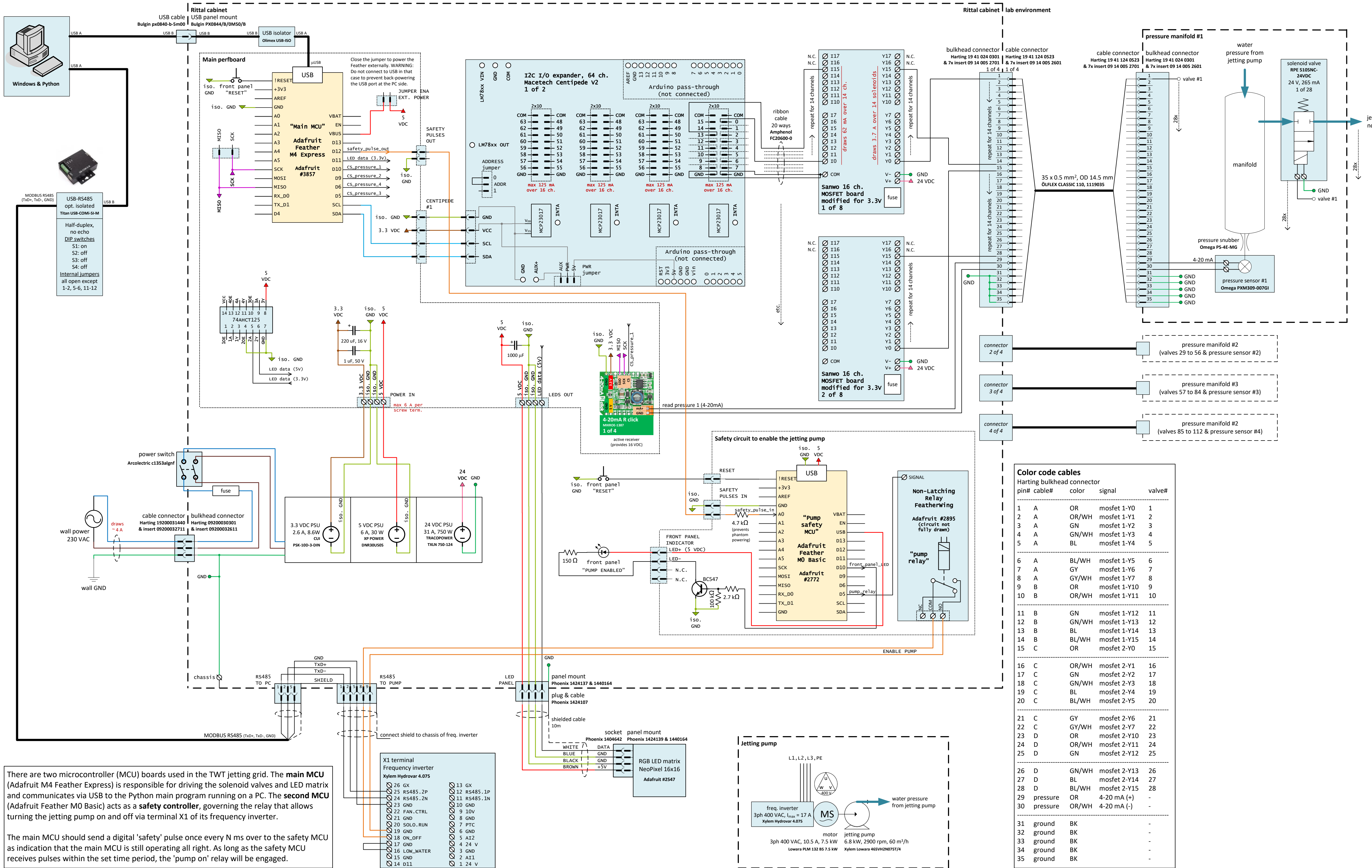


title : Electronic diagram 'TWT jetting grid'  
author : Dennis van Gils  
url : <https://github.com/Dennis-van-Gils/project-TWT-jetting-grid>  
date : 22-03-2023

**Purpose:** Control 112 solenoid valves @ 24 V by a single Arduino. We will use two Centipede boards (only one shown), each providing 64 digital outputs controlled over I2C. Each Centipede board will have 4 Sanwo MOSFET boards connected to them, each providing 16 channels. Hence, there is a total of 8 Sanwo MOSFET boards to control in total 112 (max 128) solenoid valves. We will work in groups of 14, because  $8 \times 14 = 112$ . Also, each of the 4 sides of the tunnel will house  $2 \times 14 = 28$  valves. Cable management is easier this way. Hence, instead of populating all 16 channels per MOSFET board, we occupy only the first 14.



title : Circuit diagram `Sanwo 16 channel MOSFET board`  
author : Dennis van Gils  
url : <https://nl.aliexpress.com/item/32802013615.html>  
date : 13-01-2022

