## Scene 3 Factory IO

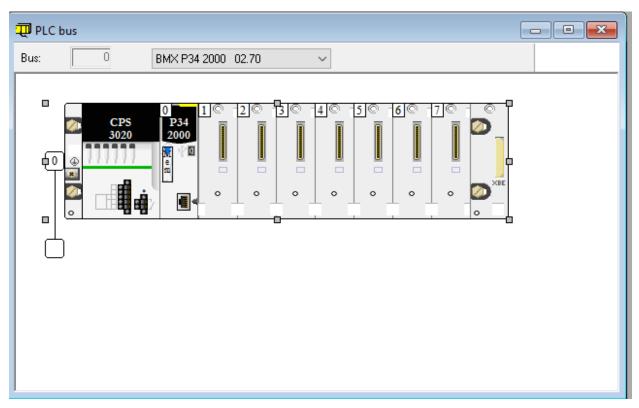
Objective: Fill and empty tanks using timers.

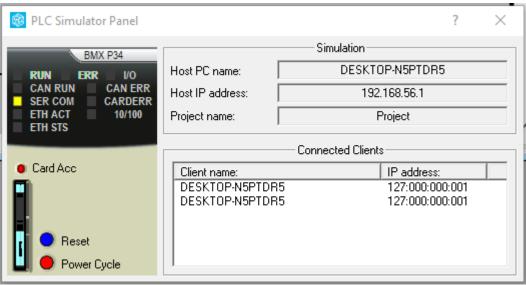
Solution: Timer Off is used to control the discharge and filling valve. DIVTIME is used to make values readable for output display. R\_TRIG is used to control the timers using Fill and Discharge valve push buttons as Inputs.

Software Used: Factory IO and Unity Pro XL

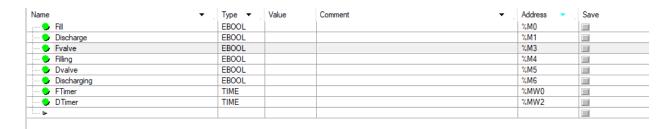
Communication Protocol: Modbus Protocol is used.

### 1. Hardware Configuration and PLC simulator Panel ( 2 connected Clients, factory io and unity pro xl )

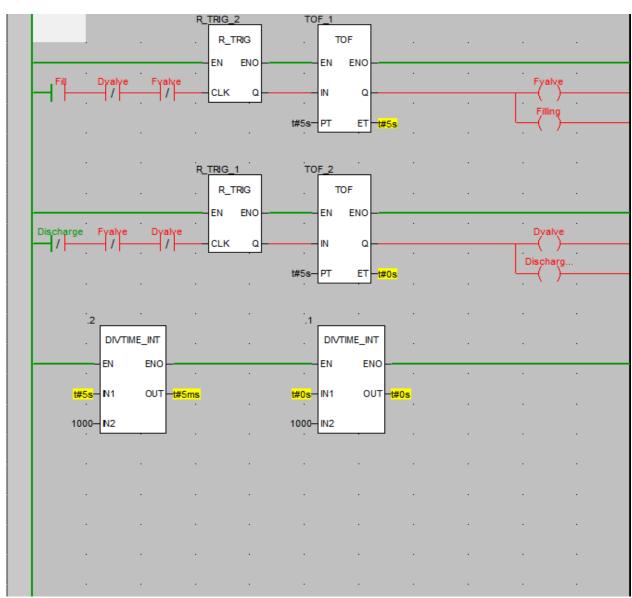




#### 2.Data variable:



#### 3. Main PLC program (ladder diagram):



### 4. Factory IO Client Server settings:





# 6. Factory IO: Docked Sensor and actuators tags when the system is running.

