

Main_Program [OB1]

Main_Program Properties

General

Name	Main_Program	Number	1	Type	OB
Language	LAD	Numbering	Manual		

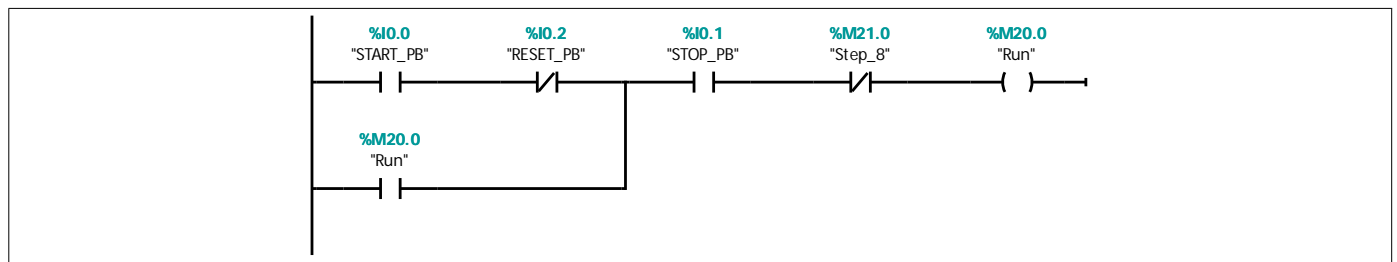
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment	Example 7.6 - Simple batch control Copyright (c) 2013 Dogwood Valley Press, LLC
Family		Version	0.1	User-defined ID	

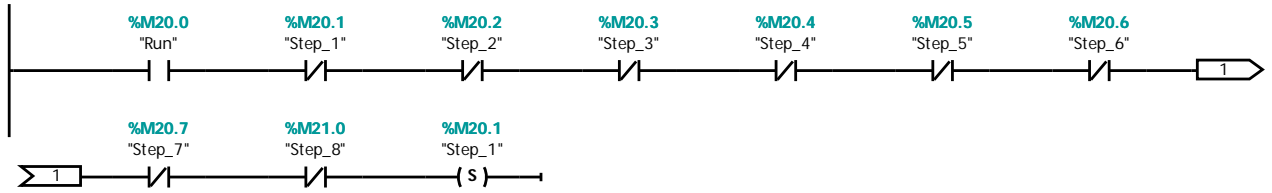
Name	Data type	Default value
▼ Temp		
OB1_EV_CLASS	Byte	
OB1_SCAN_1	Byte	
OB1_PRIORITY	Byte	
OB1_OB_NUMBR	Byte	
OB1_RESERVED_1	Byte	
OB1_RESERVED_2	Byte	
OB1_PREV_CYCLE	Int	
OB1_MIN_CYCLE	Int	
OB1_MAX_CYCLE	Int	
OB1_DATE_TIME	Date_And_Time	
Constant		

Network 1: Process running

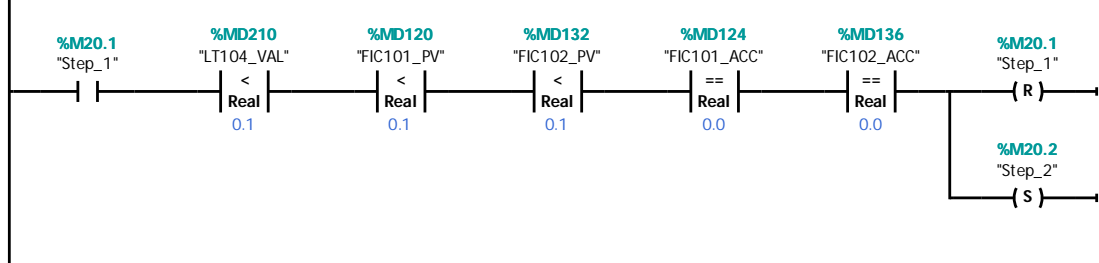
Start/stop/pause. Start prevented if reset in progress



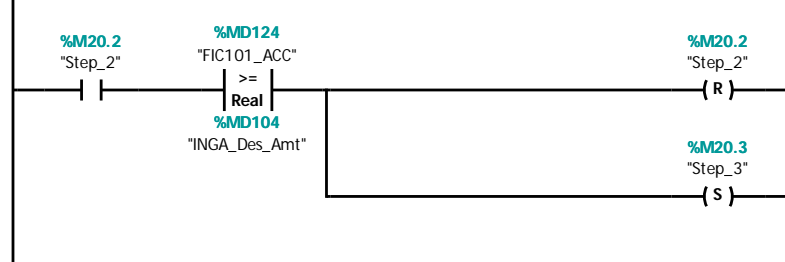
Network 2:



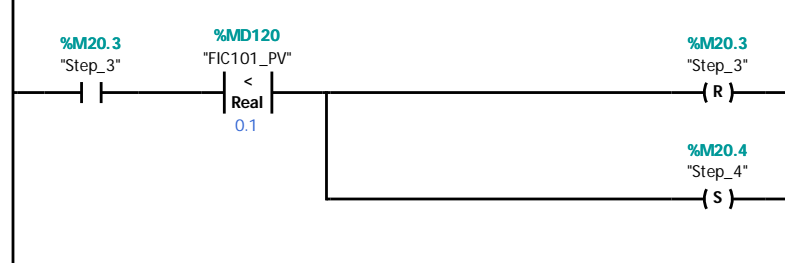
Network 3: Step 1 - Prestart checks



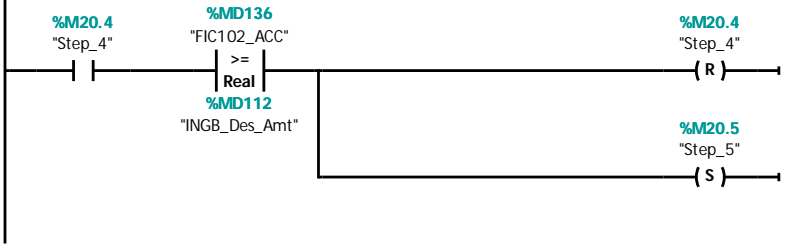
Network 4: Step 2 - Add ingredient A



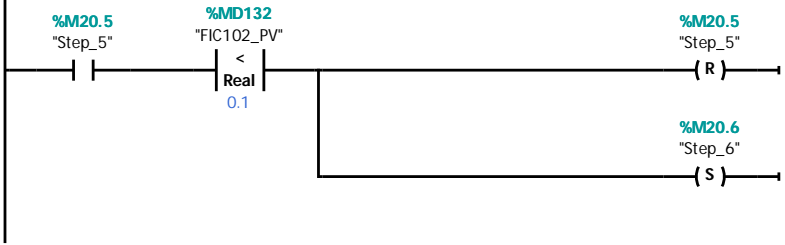
Network 5: Step 3 - Wait for A shutoff



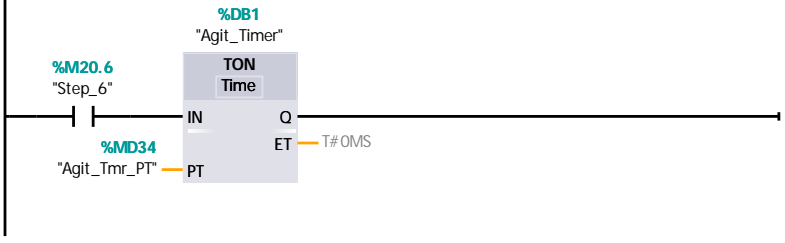
Network 6: Step 4 - Add B



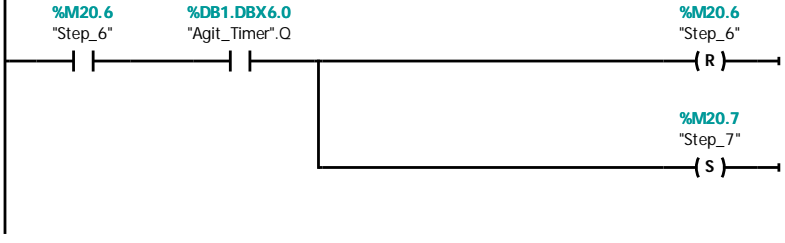
Network 7: Step 5 - Wait for B shutoff



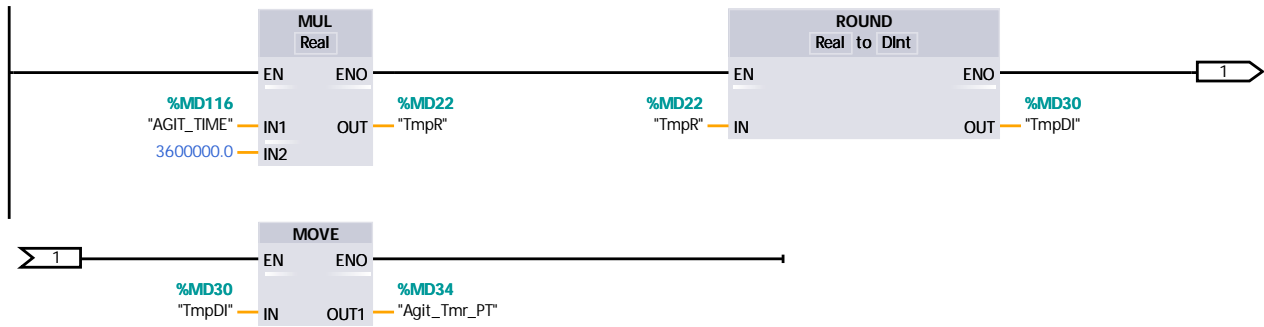
Network 8: Step 6 - Timer



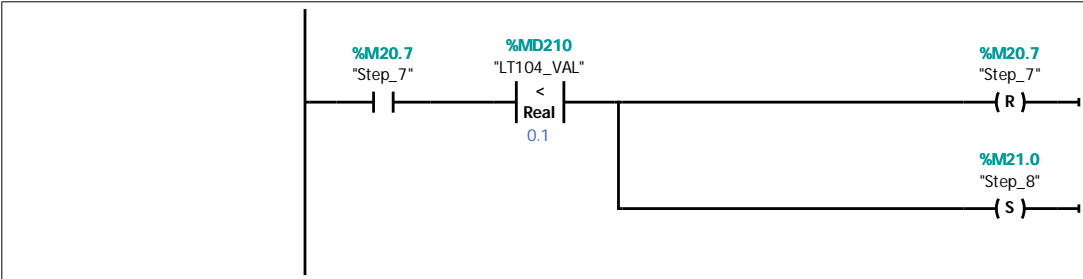
Network 9: Step 6 - Agitate fast



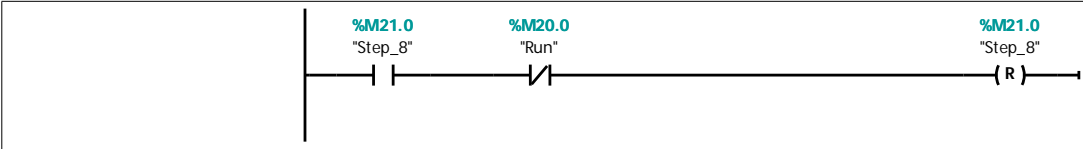
Network 10: Convert agitation time in minutes into timer preset time in MS



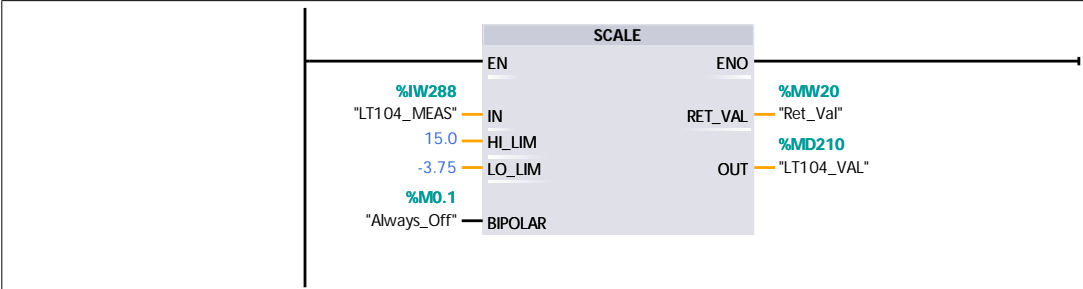
Network 11: Step 7 - Dump Tank



Network 12: Step 8 - Unlatch Run



Network 13: Conversion of Level

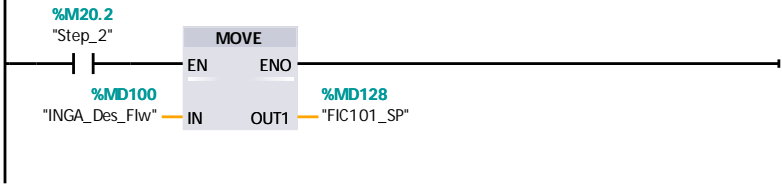


Network 14: Reset of accumulators in prestart step



Network 15: FIC101 setpoint moves

Normally -2 moved in. Only in Step 2 is setpoint set to desired flow.

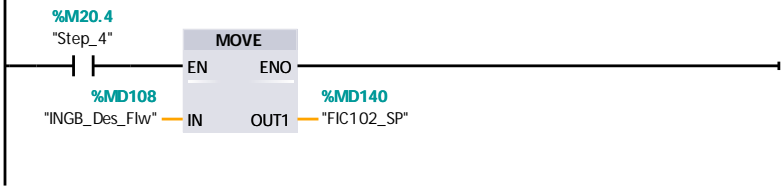


Network 16:

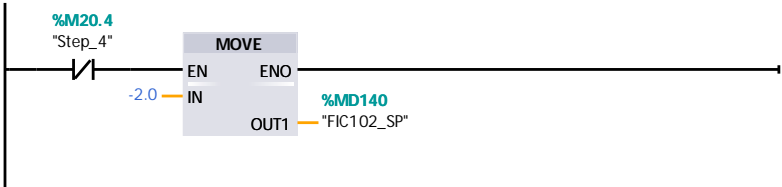


Network 17: FIC102 setpoint moves

Normally -2 moved in. Only in Step 4 is setpoint set to desired flow.

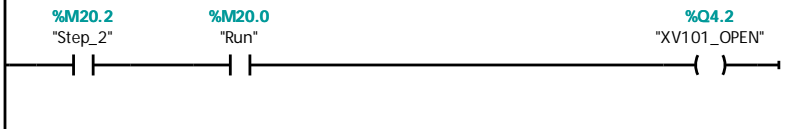


Network 18:

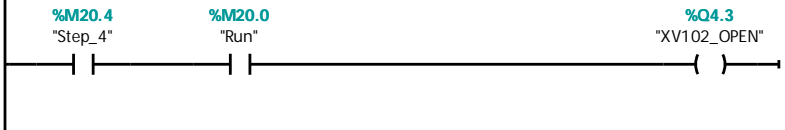


Network 19: XV101 valve control

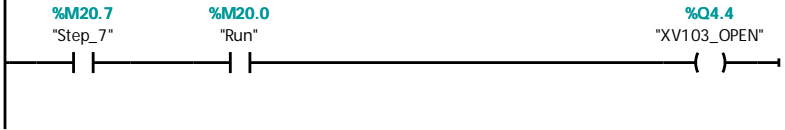
Valve controls



Network 20: XV102 valve control

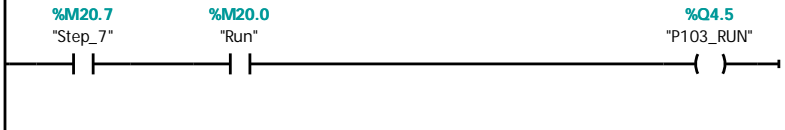


Network 21: XV103 valve control



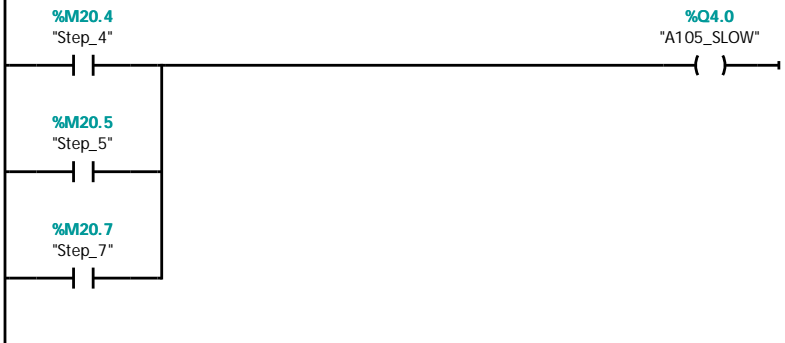
Network 22: Outlet pump motor control

Pump controls



Network 23: Agitator slow speed

Agitator controls

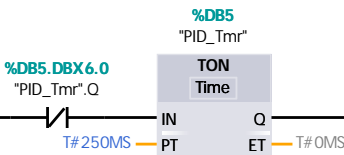


Network 24: Agitator fast speed

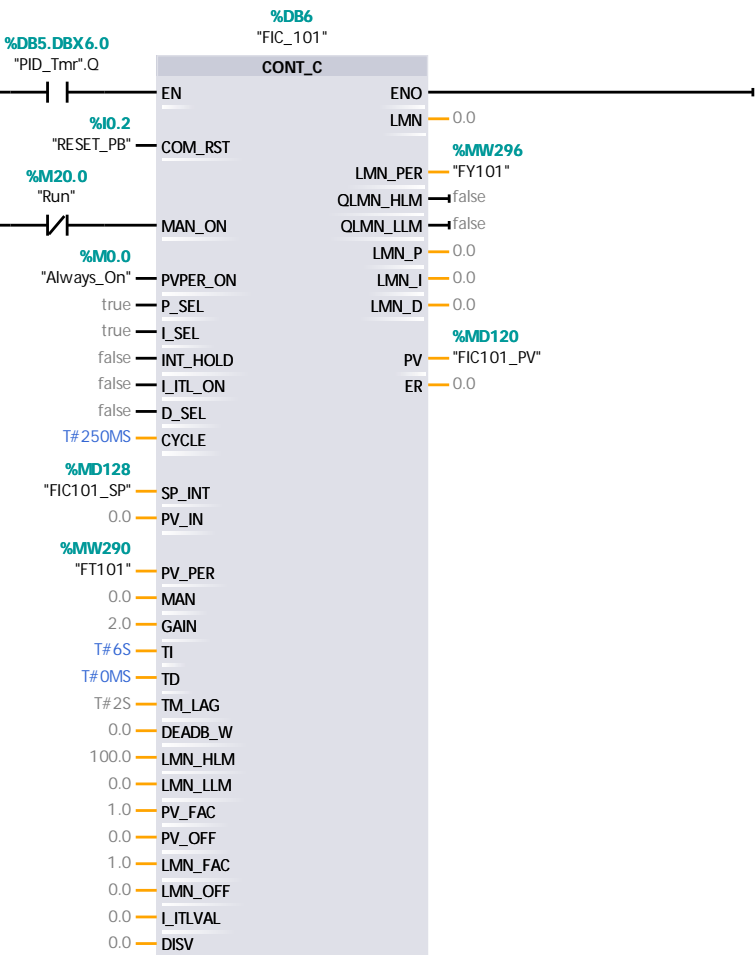
%M20.6
"Step_6"

%Q4.1
"A105_FAST"

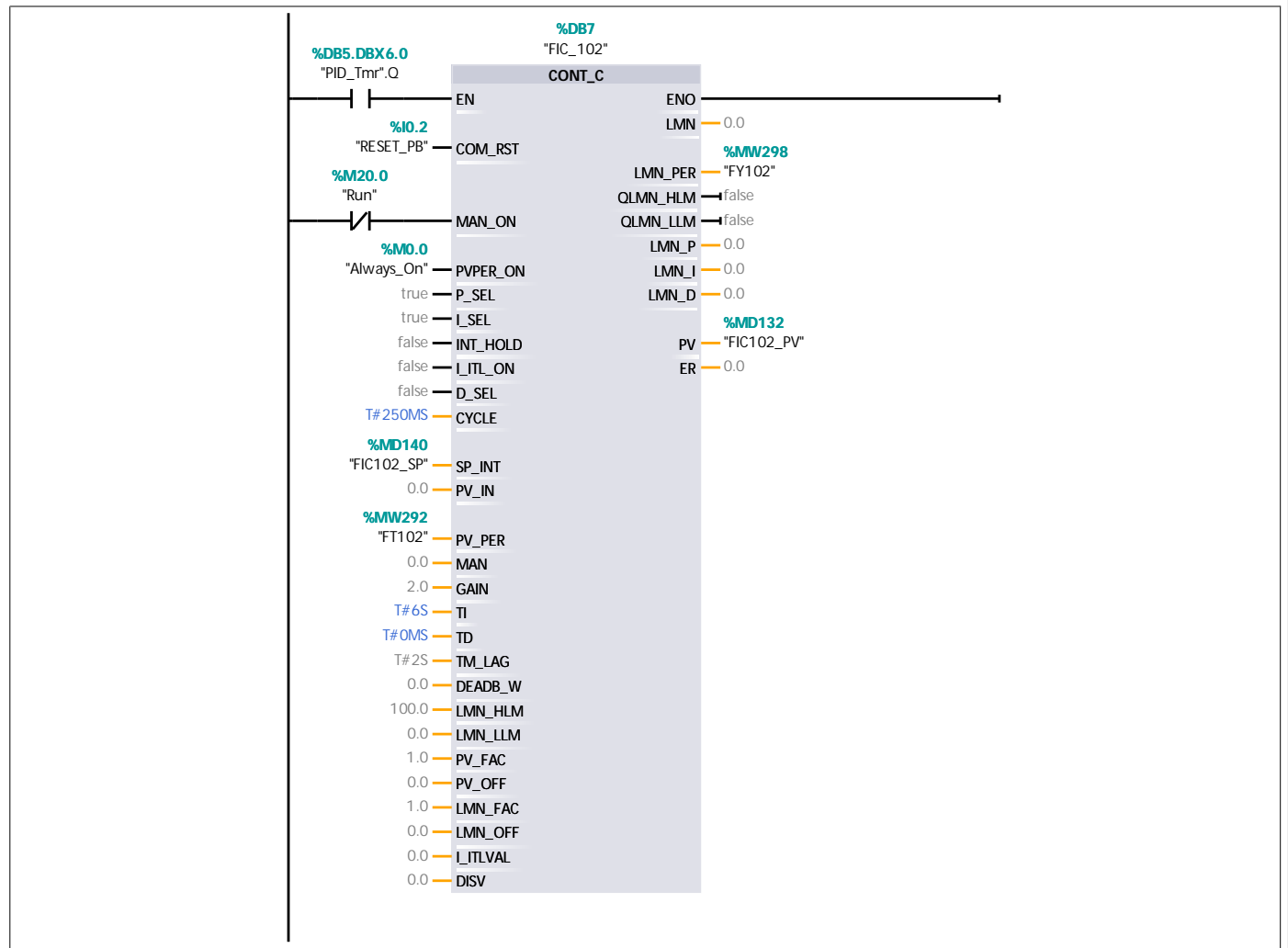
Network 25: PID Sample Timer



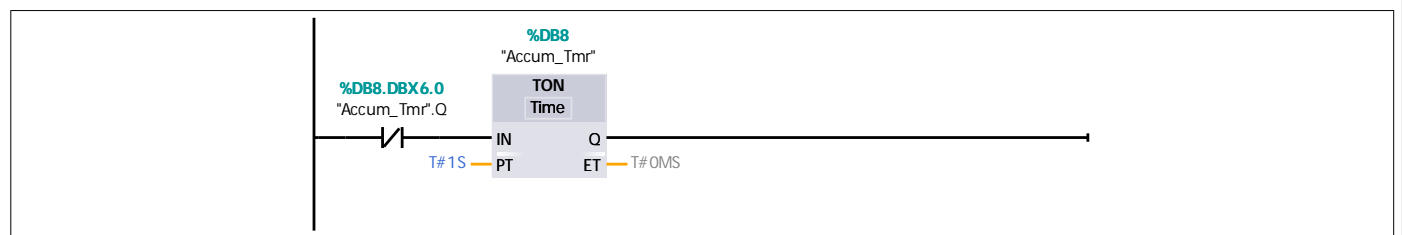
Network 26: FIC101 PID Loop



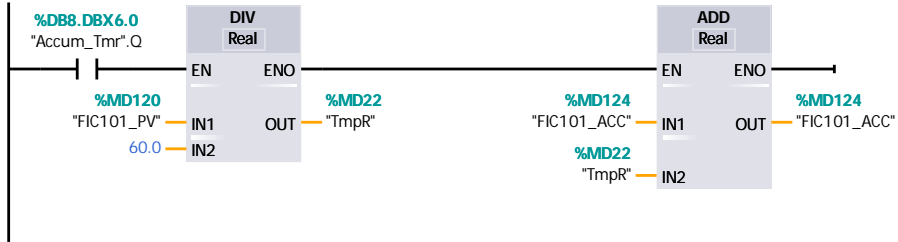
Network 27: FIC102 PID Loop



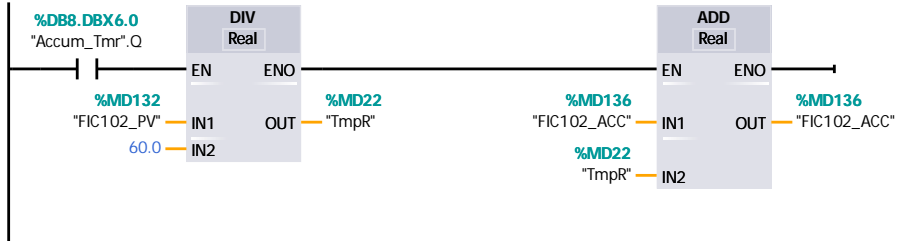
Network 28: Flow accumulator timer



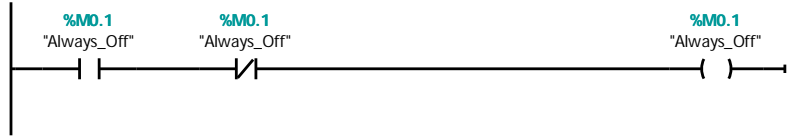
Network 29: FIC101 Accumulator



Network 30: FIC102 Accumulator



Network 31: Always Off



Network 32: Always On

