

OB1 - <offline>

"Main_Program"

Name:

Author:

Time stamp Code:

Lengths (block/logic/data):

Family:

Version: 0.1

Block version: 2

06/26/2011 07:41:55 PM

02/15/1996 04:51:12 PM

01300 01100 00030

Name	Data Type	Address	Comment
TEMP		0.0	
OB1_EV_CLASS	Byte	0.0	Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1)
OB1_SCAN_1	Byte	1.0	1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)
OB1_PRIORITY	Byte	2.0	Priority of OB Execution
OB1_OB_NUMBR	Byte	3.0	1 (Organization block 1, OB1)
OB1_RESERVED_1	Byte	4.0	Reserved for system
OB1_RESERVED_2	Byte	5.0	Reserved for system
OB1_PREV_CYCLE	Int	6.0	Cycle time of previous OB1 scan (milliseconds)
OB1_MIN_CYCLE	Int	8.0	Minimum cycle time of OB1 (milliseconds)
OB1_MAX_CYCLE	Int	10.0	Maximum cycle time of OB1 (milliseconds)
OB1_DATE_TIME	Date_And_Time	12.0	Date and time OB1 started

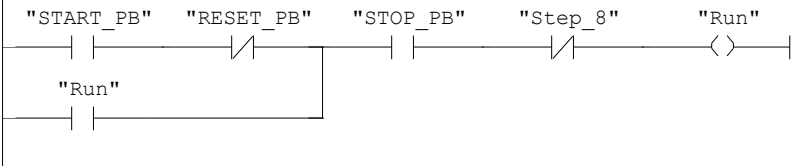
Block: OB1 "Main Program Sweep (Cycle)"

Example 7.6 - Simple batch control

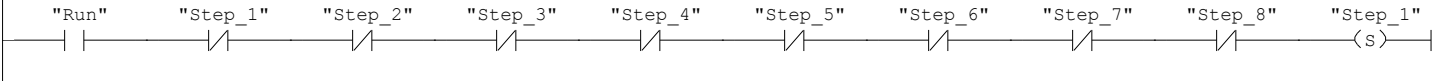
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Network: 1 Process running

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

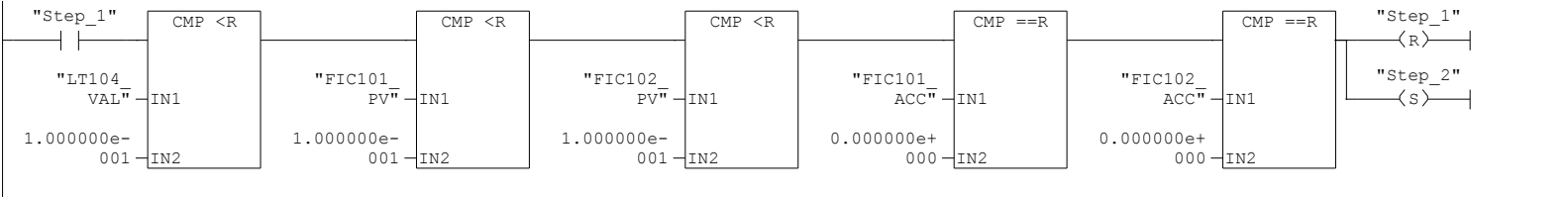


Network: 2



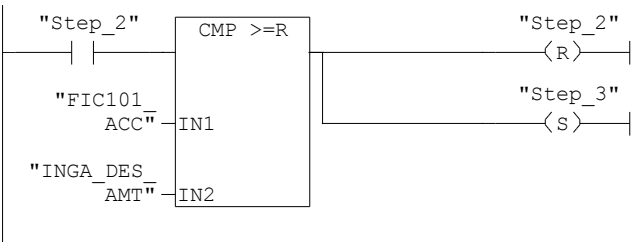
Network: 3

Step 1 - Prestart checks



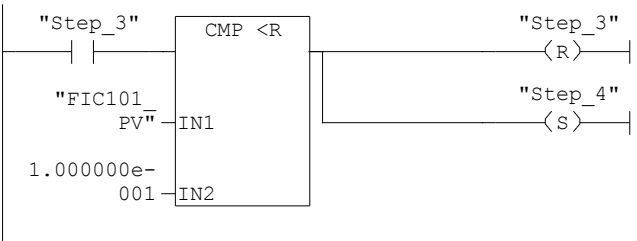
Network: 4

Step 2 - Add ingredient A



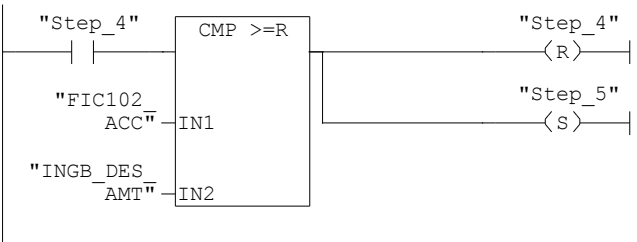
Network: 5

Step 3 - Wait for A shutoff



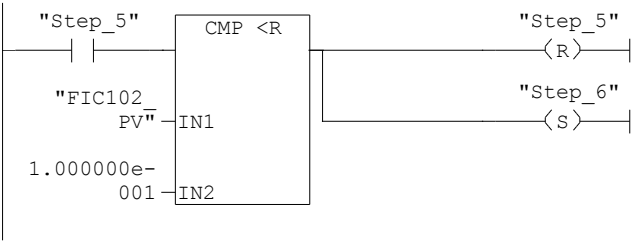
Network: 6

Step 4 - Add B



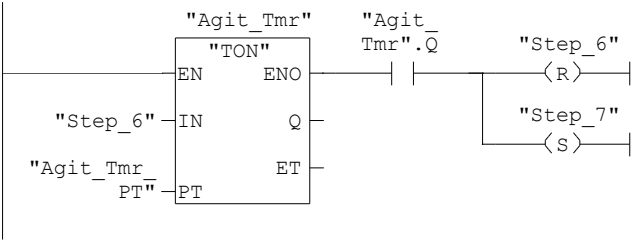
Network: 7

Step 6 - Wait for B shutoff



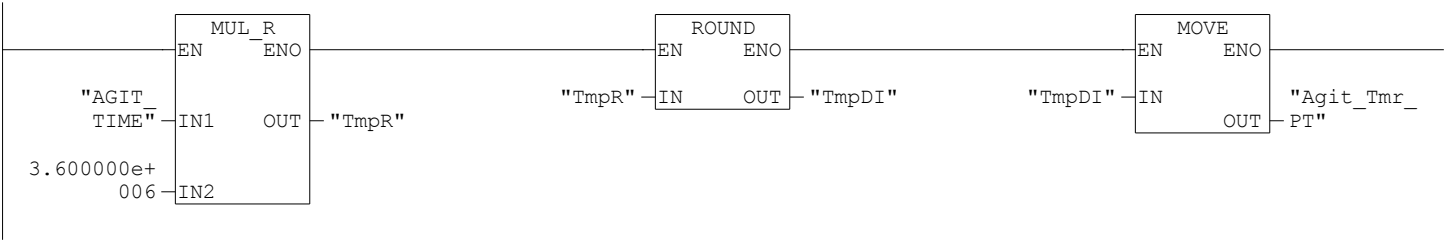
Network: 8

Agitate fast



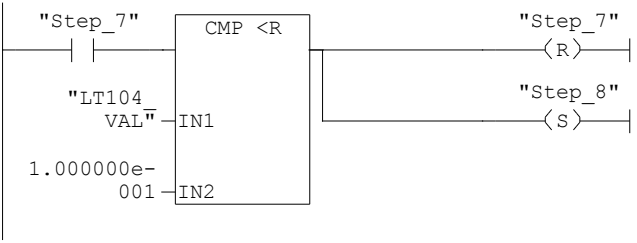
Network: 9

Convert agitation time in minutes into timer preset time in MS



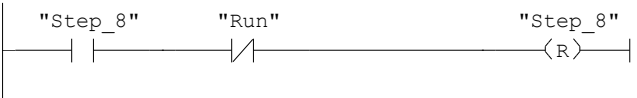
Network: 10

Step 7 - Dump Tank



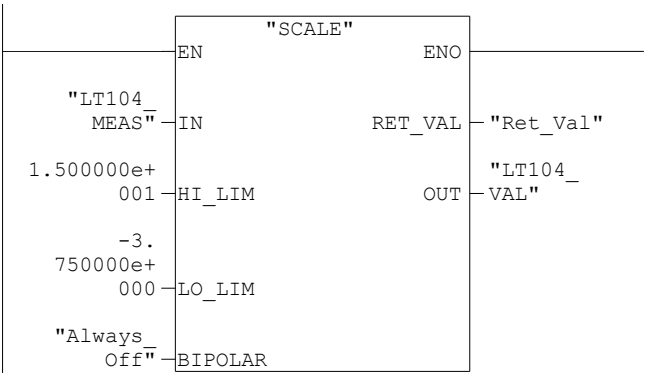
Network: 11

Step 8 - Unlatch Run



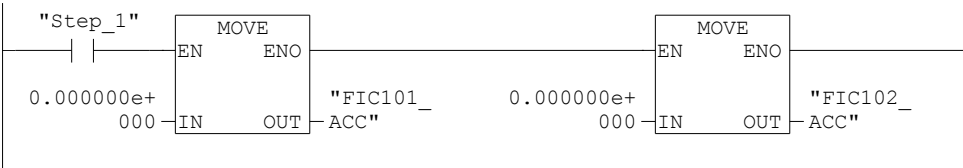
Network: 12

Conversion of Level



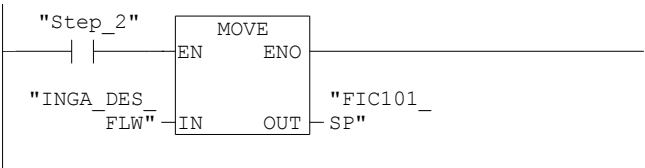
Network: 13

Reset of accumulators in prestart step

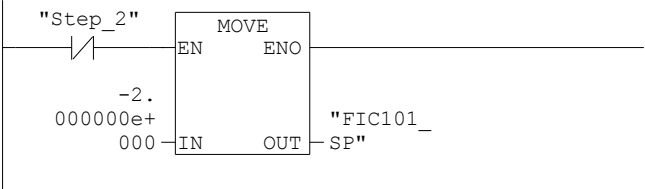


Network: 14

FIC101 setpoint moves - normally -2 moved in. Only in Step 2 is setpoint set to desired flow.

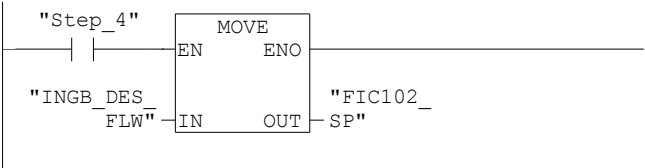


Network: 15

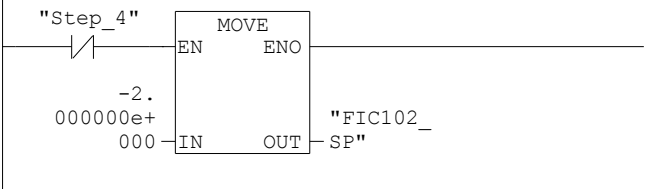


Network: 16

FIC102 setpoint moves - normally -2 moved in. Only in Step 4 is setpoint set to desired flow.

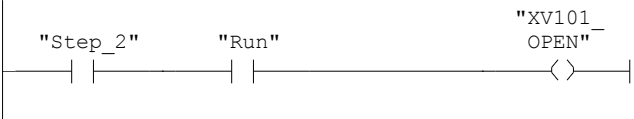


Network: 17

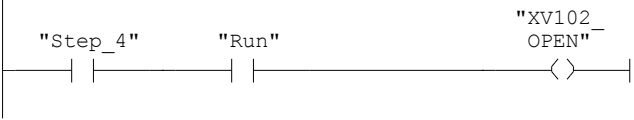


Network: 18 XV101 valve control

Valve controls

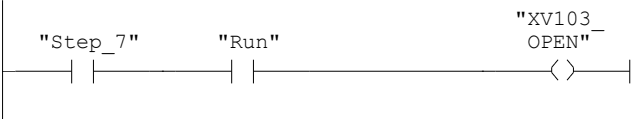


Network: 19 XV102 valve control



Network: 20

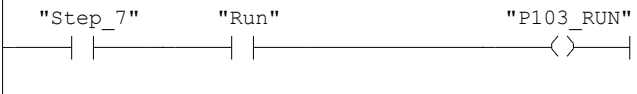
XV103 valve control



Network: 21

Outlet pump motor control

Pump controls



Network: 22

Agitator slow speed

Agitator controls



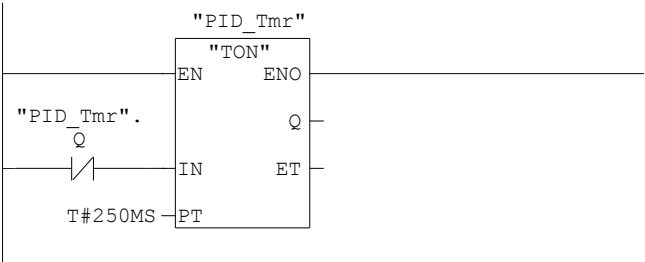
Network: 23

Agitator fast speed

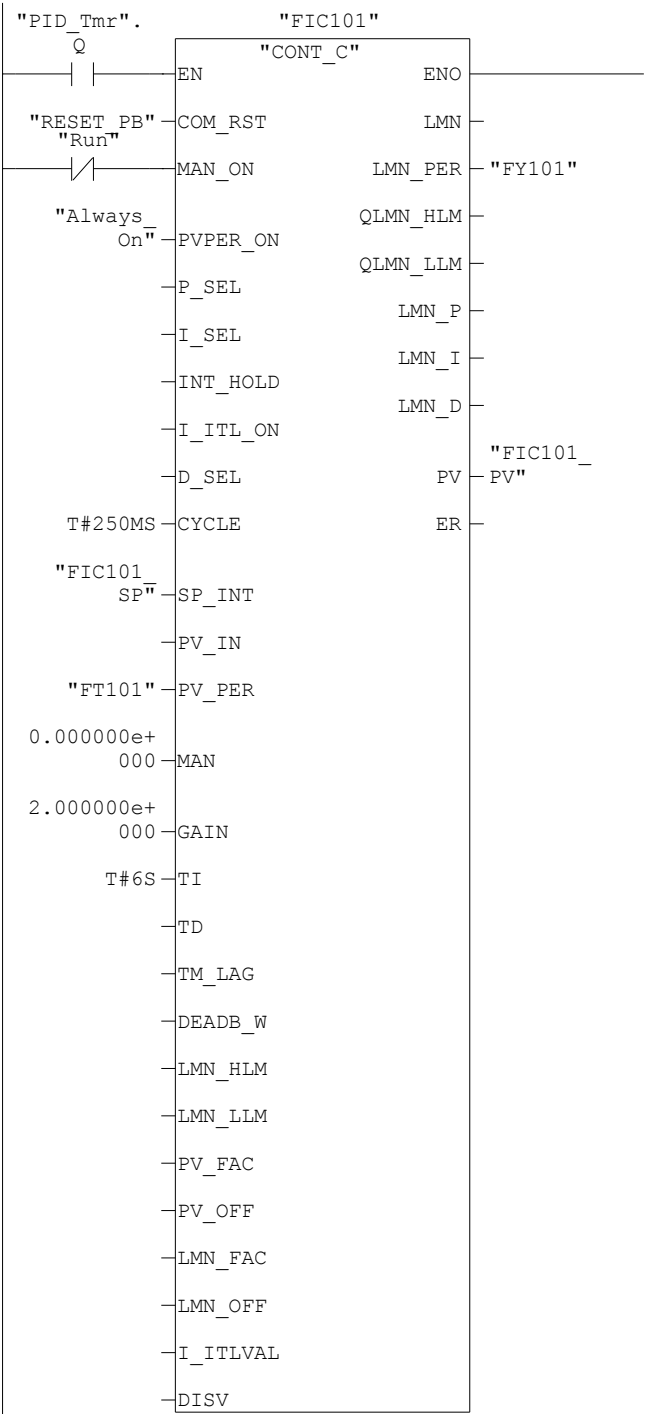


Network: 24

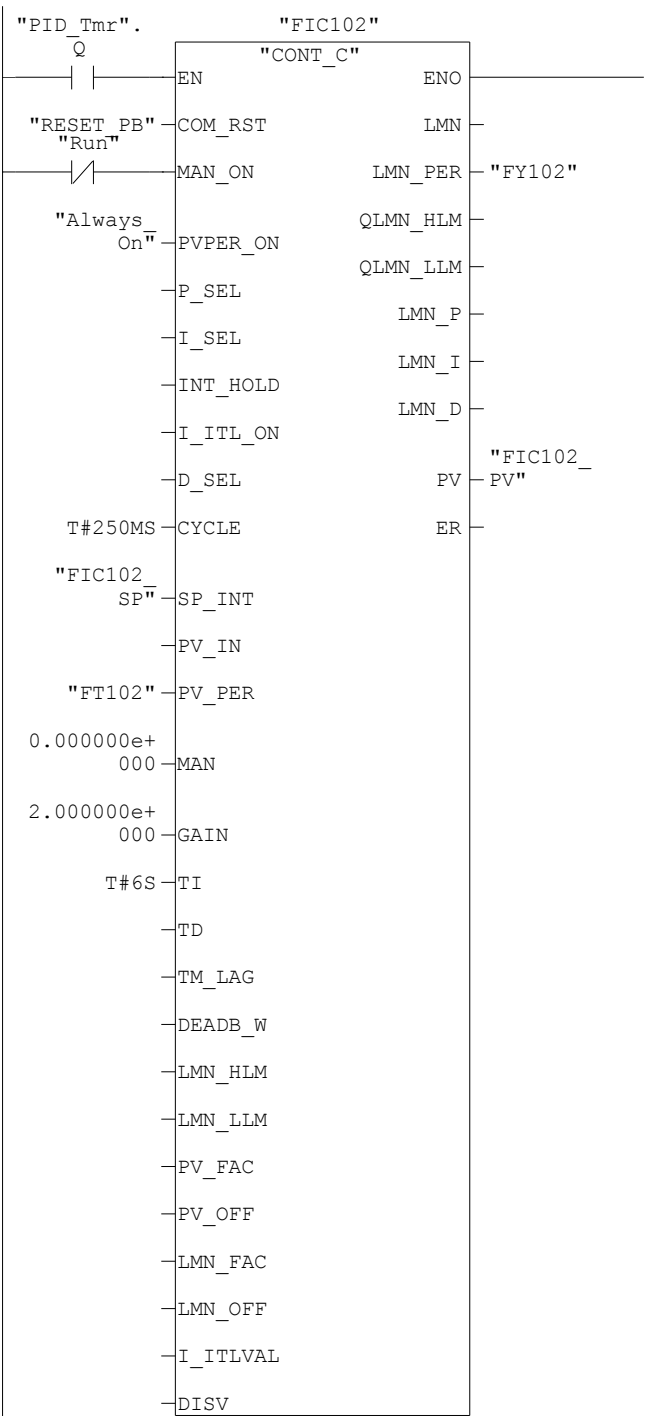
PID Sample Timer



Network: 25
FIC101 PID Loop

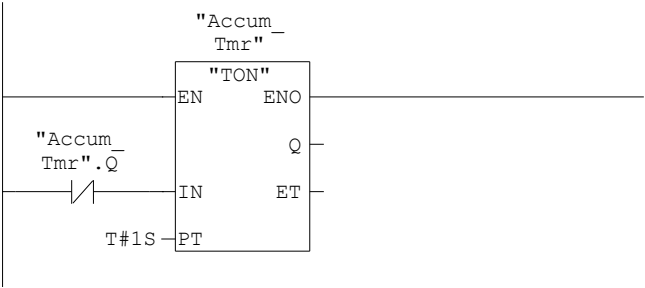


Network: 26

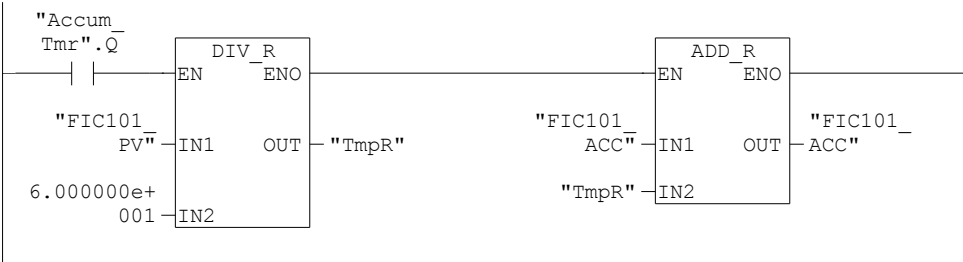


Network: 27

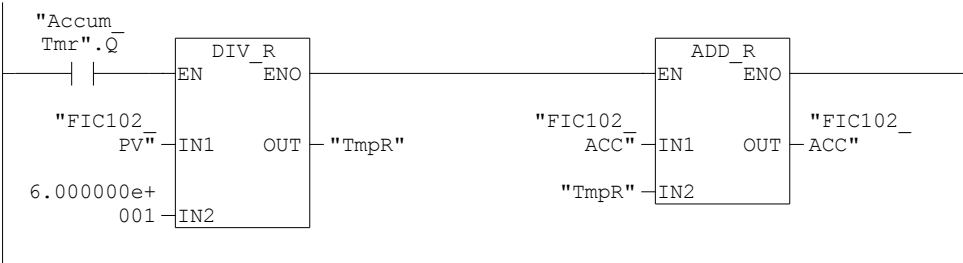
Flow accumulators



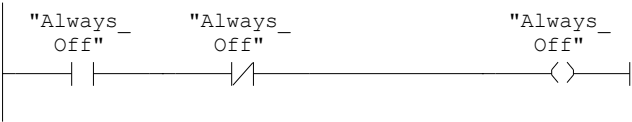
Network: 28



Network: 29



Network: 30



Network: 31

