

OB1 - <offline>

""

Name:

Author:

Time stamp Code:

Lengths (block/logic/data):

Family:

Version: 0.1

Block version: 2

12/27/2015 07:24:24 AM

02/15/1996 04:51:12 PM

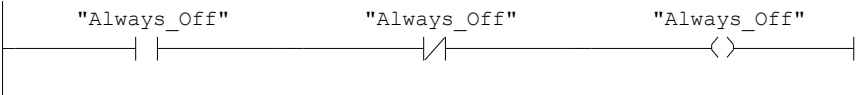
00896 00736 00030

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: OB1Main Program Sweep (Cycle)

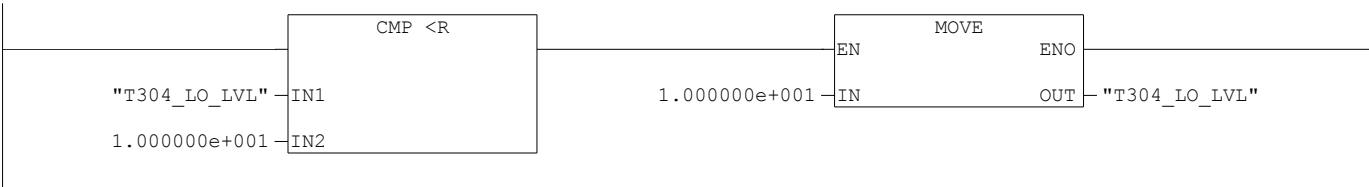
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SP7-4 Day Tank Level Control with Alarms  
  
This part from SP7-2

Network: 1Always off



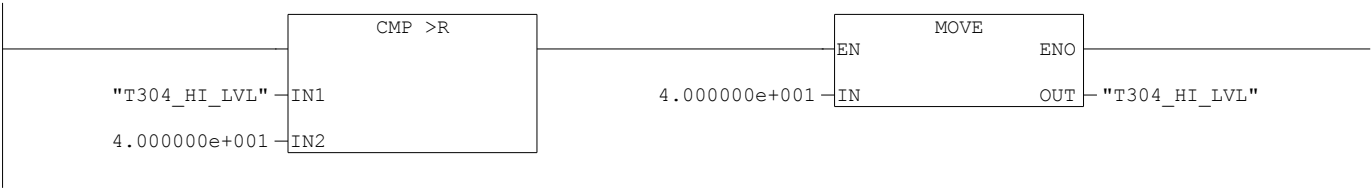
Network: 2

Make sure minimum tank level within bounds.



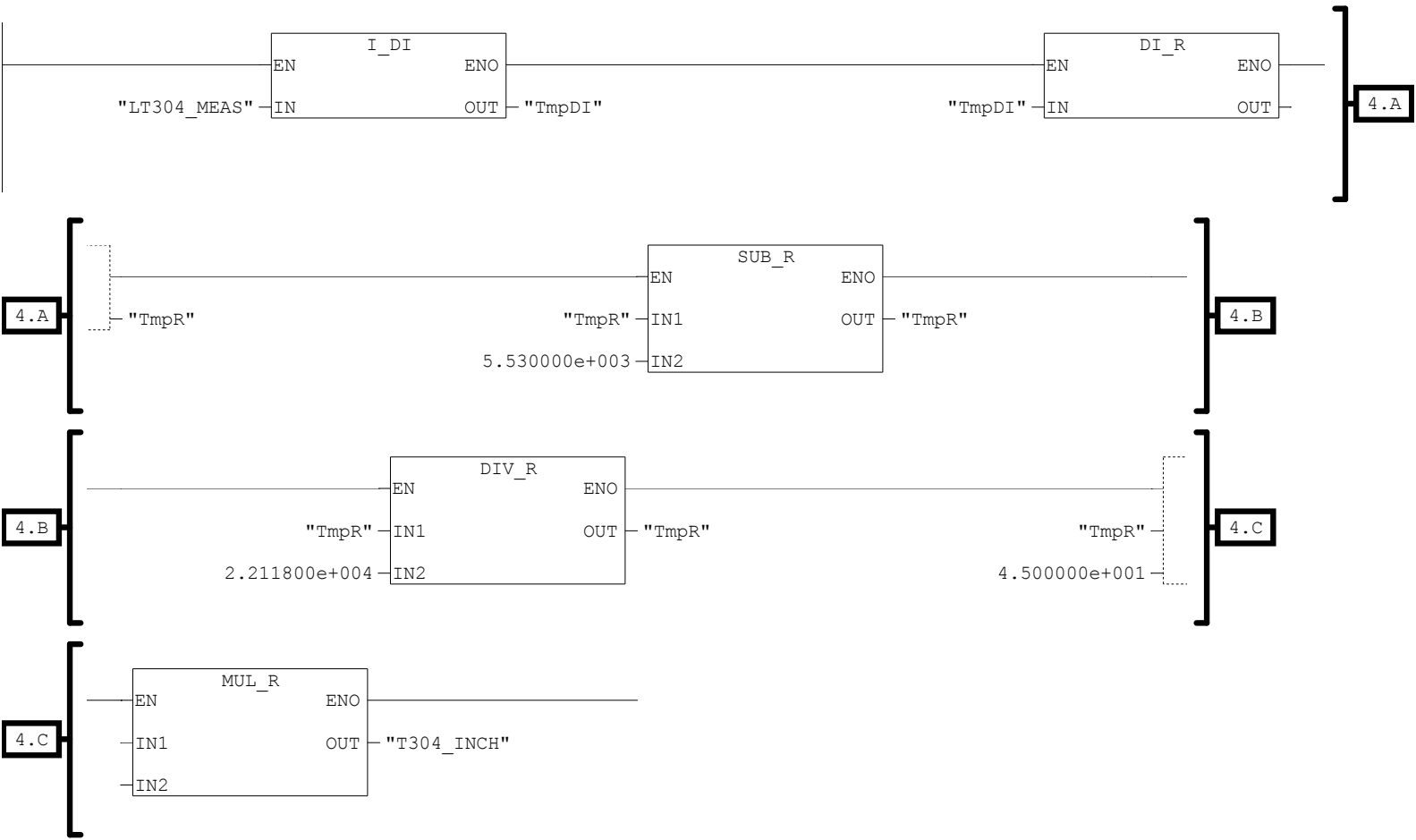
Network: 3

Make sure maximum tank level within bounds.



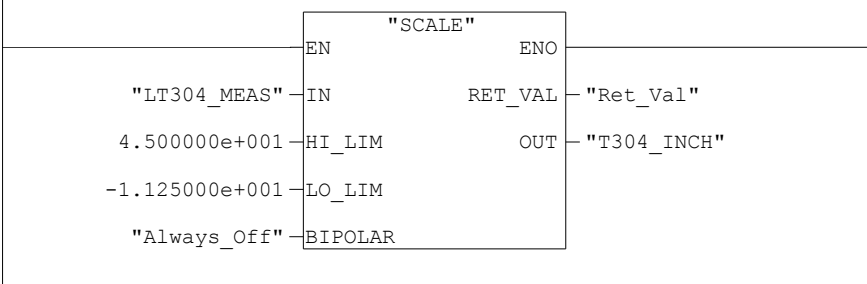
Network: 4

Convert level measurement to level in inches.  
Uses individual computation blocks.



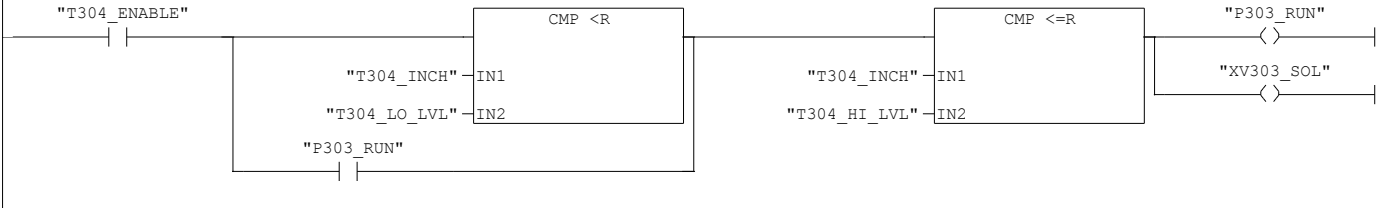
Network: 5

Convert level measurement to level in inches.  
Uses SCALE block. Note that the lo\_lim input is 25% lower than zero level to account for this block assuming the minimum value of the analog in is zero rather than the 5530 (which corresponds to 4 mA).



Network: 6      P-303 pump control, on runs pump

Tank control - on when level low, off when level high.



Network: 7

\*\*\*\*\* Section for SP7-3 \*\*\*\*\*

Additional internal memory:

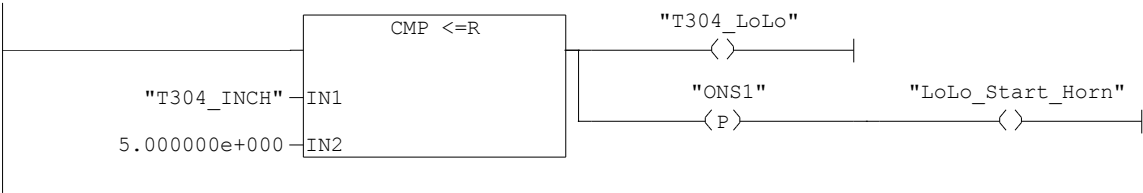
Symbol	Address		
T304_Lo_Alm	MD112	REAL	Low alarm value
T304_Hi_Alm	MD116	REAL	High alarm value
T304_LoLo	M10.0	BOOL	On when low-low alarm
T304_Lo	M10.1	BOOL	On when low alarm
T304_HiHi	M10.2	BOOL	On when high-high alarm
T304_Hi	M10.3	BOOL	On when high alarm
ONS1	M10.4	BOOL	Transitional bit for low-low
LoLo_Start_Horn	M10.5	BOOL	Horn start for low-low
ONS2	M10.6	BOOL	Transitional bit for high-high
HiHi_Start_Horn	M10.7	BOOL	Horn start for high-high
LoLo_Tmr1	DB1	SFB4	First tmr for low-low flash light
LoLo_Tmr2	DB3	SFB4	Secnd tmr for low-low flash light
HiHi_Tmr1	DB4	SFB4	First tmr for hi-hi flash light
HiHi_Tmr2	DB5	SFB4	Secnd tmr for hi-hi flash light

Calculate alarm level values



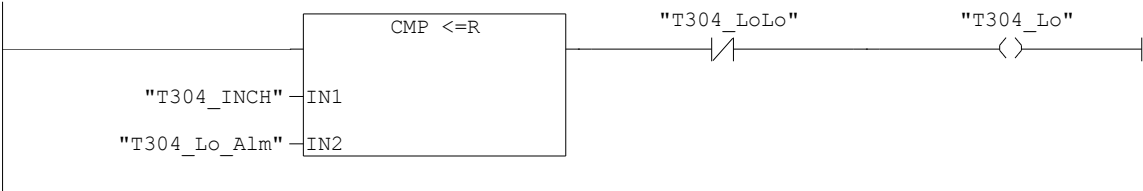
Network: 8      On when low-low alarm

Low-low alarm detection and transition to start horn.



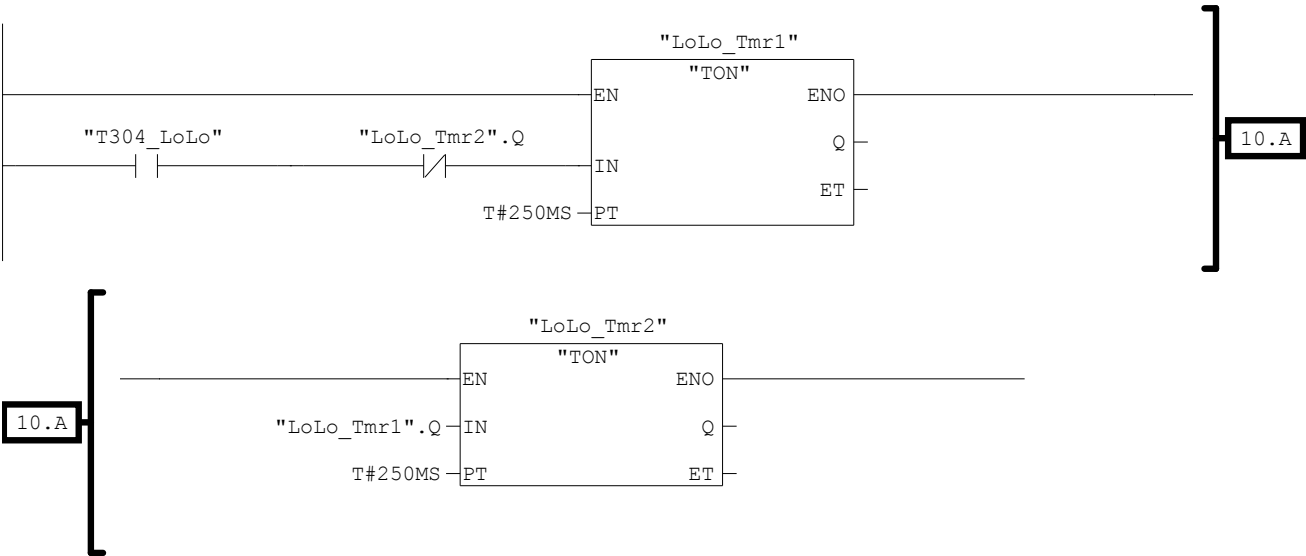
Network: 9      On when low alarm

Low alarm detection



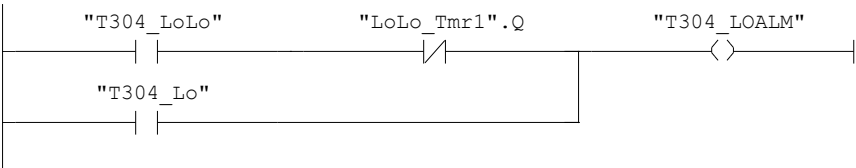
Network: 10

Flashing light timers for low-low



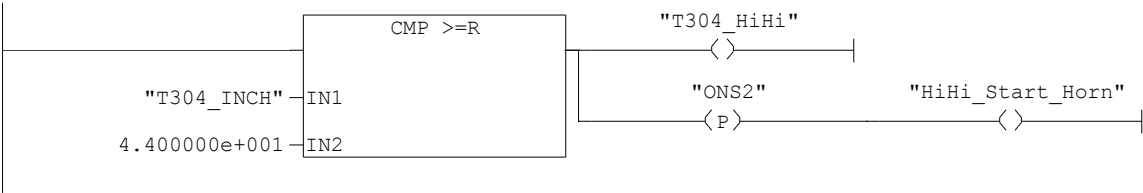
Network: 11      On when low-low alarm

Low and low-low alarm indication



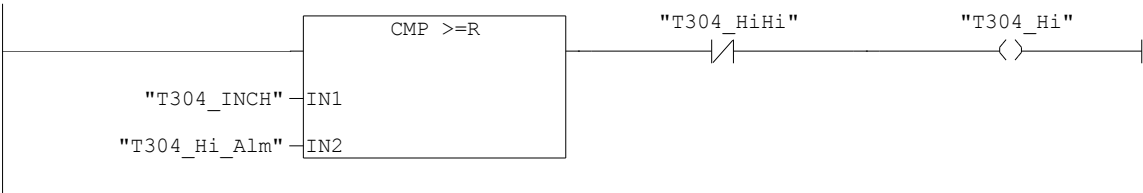
Network: 12      On when high-high alarm

High-high alarm detection and transition to start horn.



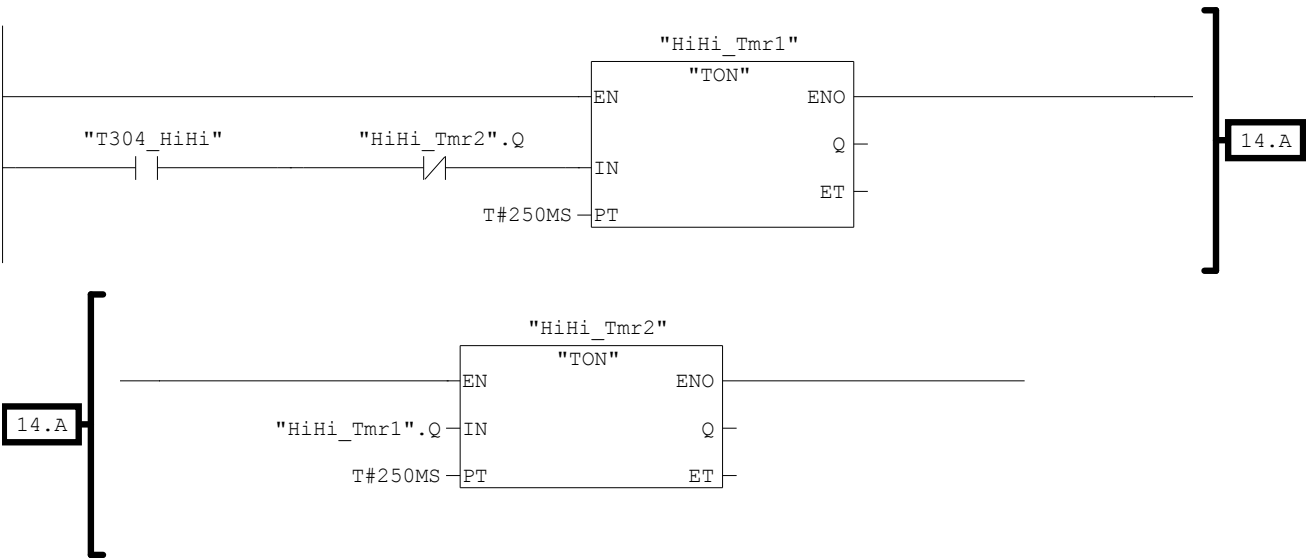
Network: 13      On when high alarm

High alarm detection.



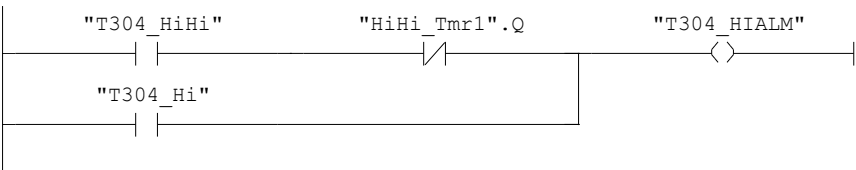
Network: 14

Flashing light timers for high-high



Network: 15      High level alarm indication, flashing when high-high

High and high-high indication



Network: 16	Alarm horn, on to sound horn
Alarm horn. Low-low and high-high transitions turn it on	

