

OB1 - <offline>

""

Name:

Family:

Author:Version: 0.1

Block version: 2

Time stamp Code:12/27/2015 07:22:37 AM

Interface:02/15/1996 04:51:12 PM

Lengths (block/logic/data): 00430 00286 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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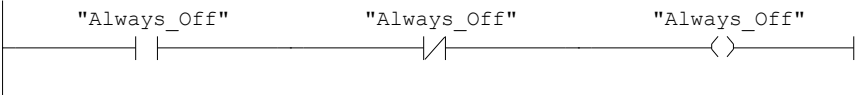
SP7-2 Day Tank Level Control

Additional internal memory:

| | | | |
|---------|---------|------|-------------------------------|
| Symbol | Address | | |
| Ret_Val | MW2 | WORD | Return value from SCALE block |
| TmpDI | MD120 | DINT | Temporary double integer |
| TmpR | MD124 | REAL | Temporary real |

Equation to convert LT304 MEAS into the level in inches:
T304_INCH = (LT304_MEAS-5530)/22118.0) * 45.0

| | |
|------------|------------|
| Network: 1 | Always off |
| | |



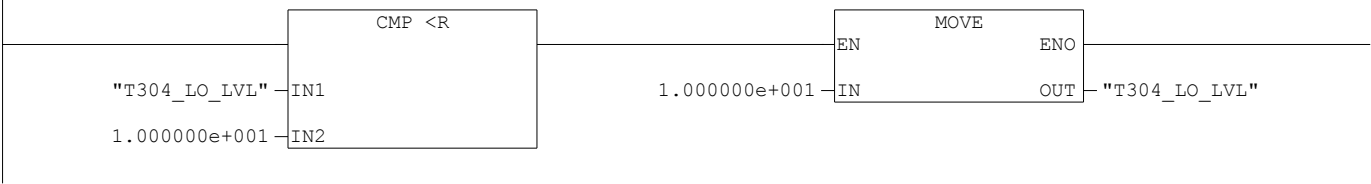
Network: 2

Always on



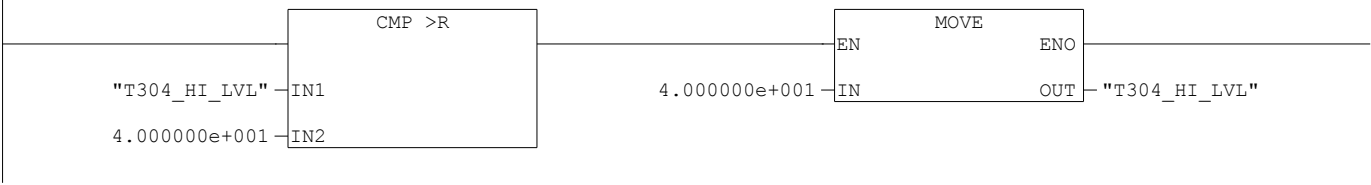
Network: 3

Make sure minimum tank level within bounds.



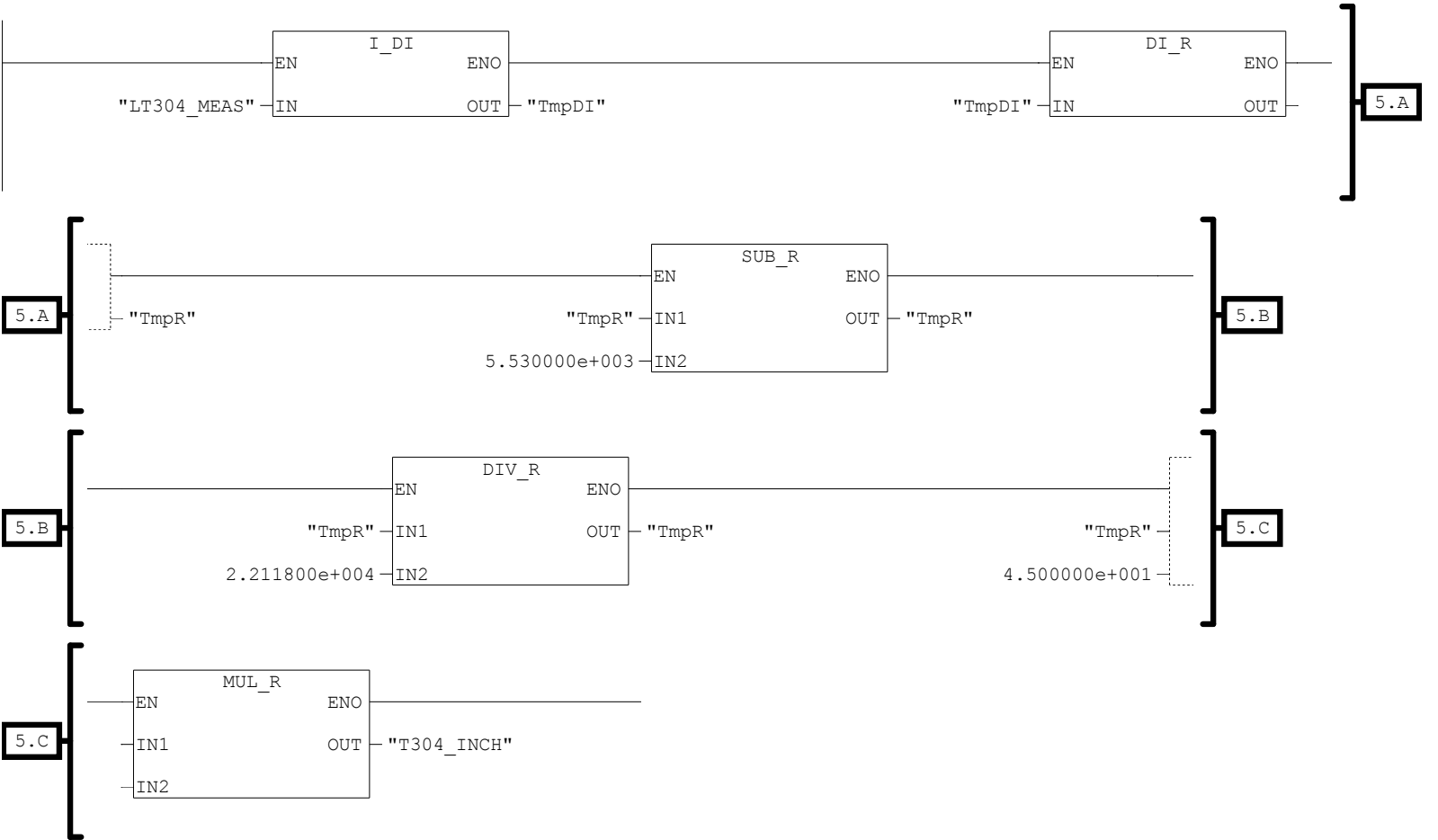
Network: 4

Make sure maximum tank level within bounds.



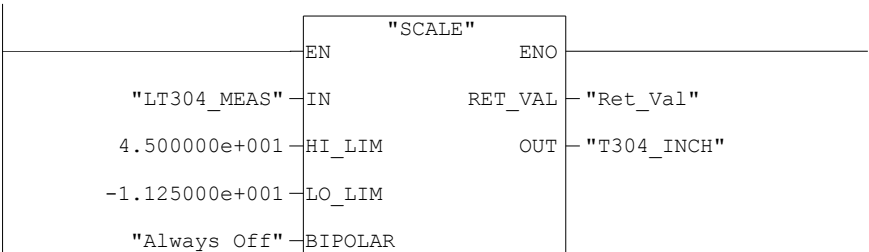
Network: 5

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



Network: 6

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: 7P-303 pump control, on runs pump

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

