

## Main\_Program [OB1]

### Main\_Program Properties

#### General

<b>Name</b>	Main_Program	<b>Number</b>	1	<b>Type</b>	OB
<b>Language</b>	LAD	<b>Numbering</b>	Manual		

#### Information

<b>Title</b>	SP7-2	<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

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: SP7-2

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SP7-2 Day Tank Level Control

Additional internal memory:

Tag Address

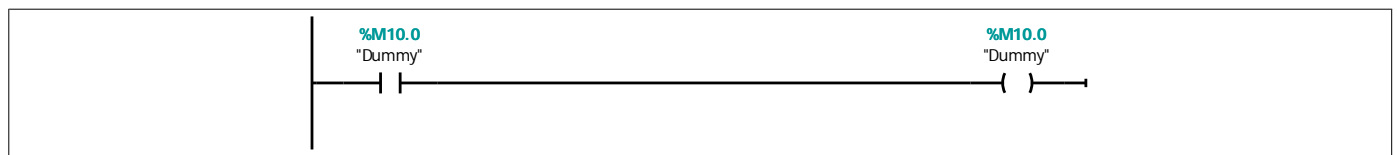
Ret\_Val MW2 WORD Return value from SCALE block

TmpDI MD120 DINT Temporary double integer

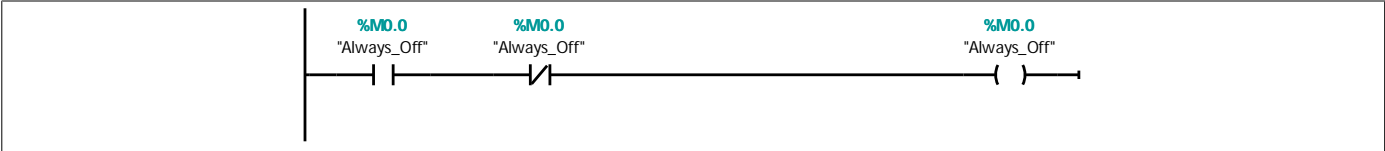
TmpR MD124 REAL Temporary real

Equation to convert LT304\_MEAS into the level in inches:

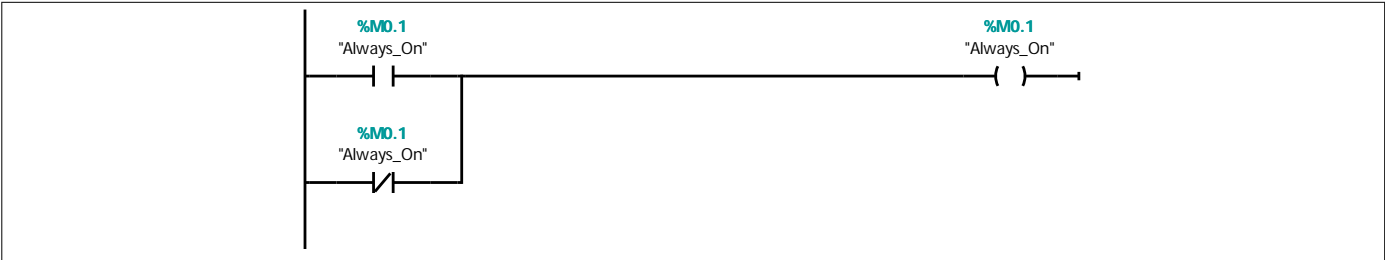
$T304\_INCH = (LT304\_MEAS - 5530) / 22118.0 * 45.0$



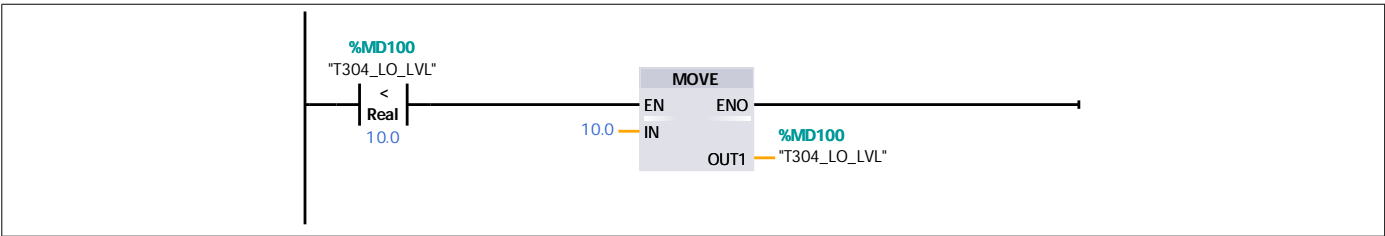
**Network 2: Always off**



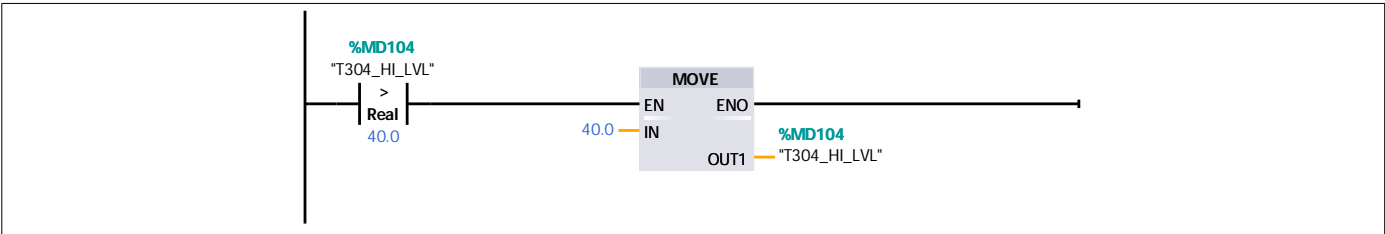
**Network 3: Always on**



**Network 4: Make sure minimum tank level within bounds.**

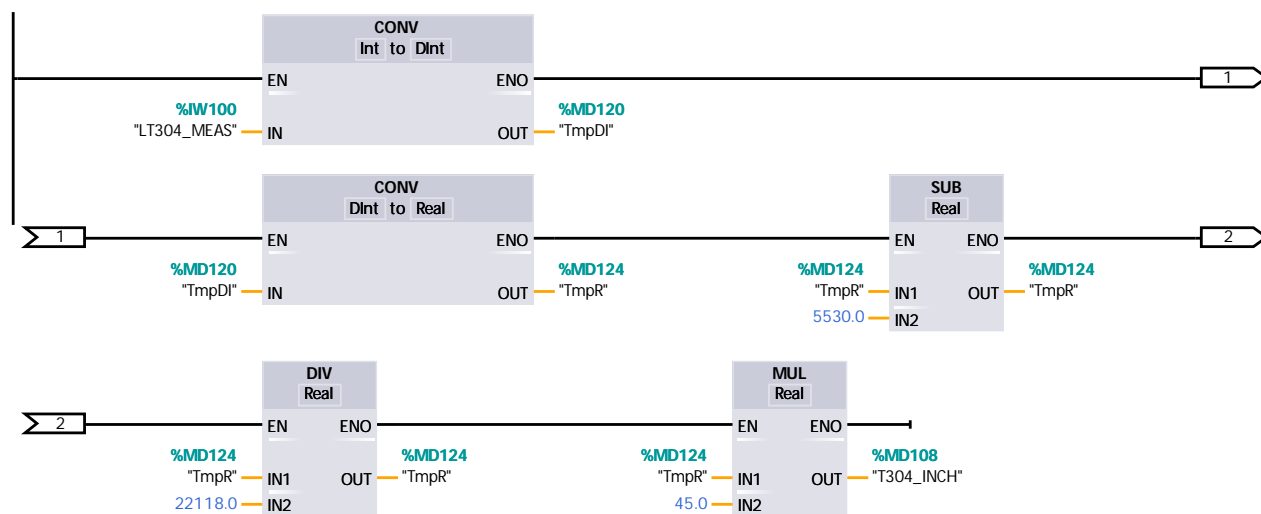


**Network 5: Make sure maximum tank level within bounds.**



**Network 6: Convert level measurement using comp blocks**

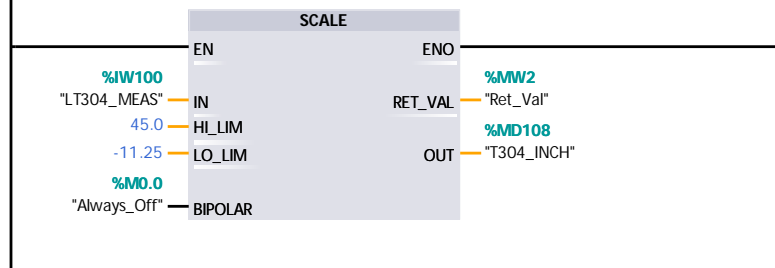
Convert level measurement to level in inches  
Uses individual computation blocks.



### Network 7: Convert level measurement using SCALE

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 8: P-303 pump control, on runs pump

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

