

Main [OB1]

Main Properties

General

Name	Main	Number	1	Type	OB
Language	LAD	Numbering	Manual		

Information

Title	SP7-2	Author		Comment	
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: SP7-2

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SP7-2 Day Tank Level Control

Additional internal memory:

Tag Address

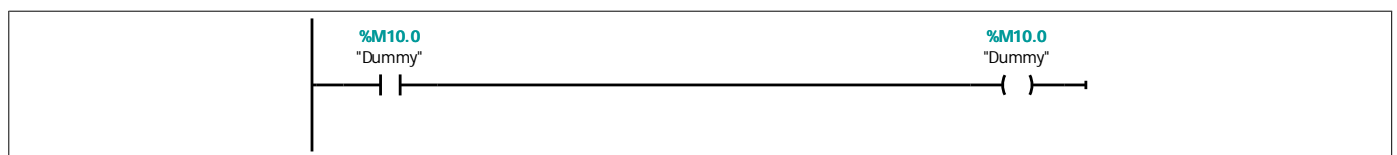
Ret_Val MW2 WORD Return value from SCALE block

TmpDI MD120 DINT Temporary double integer

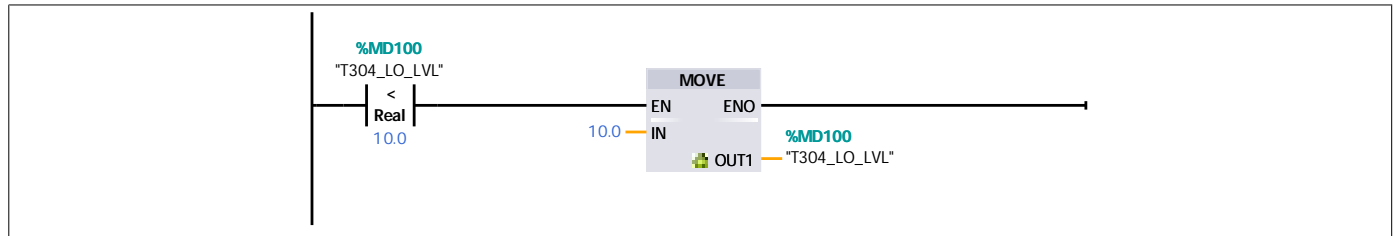
TmpR MD124 REAL Temporary real

Equation to convert LT304_MEAS into the level in inches:

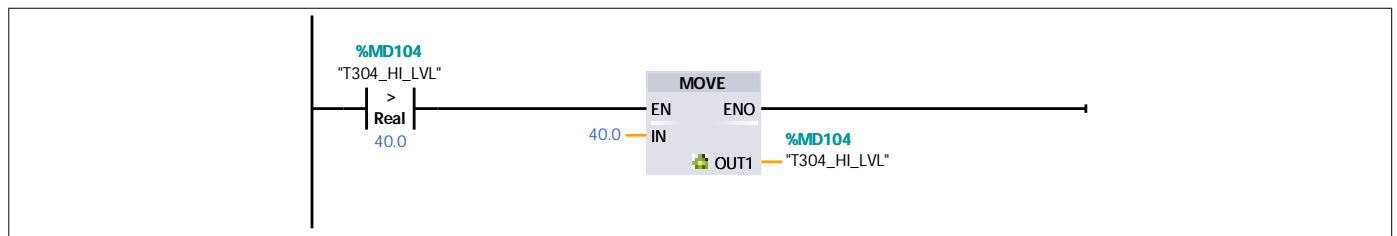
$$T304_INCH = (LT304_MEAS - 5530) / 22118.0 * 45.0$$



Network 2: Make sure minimum tank level within bounds.



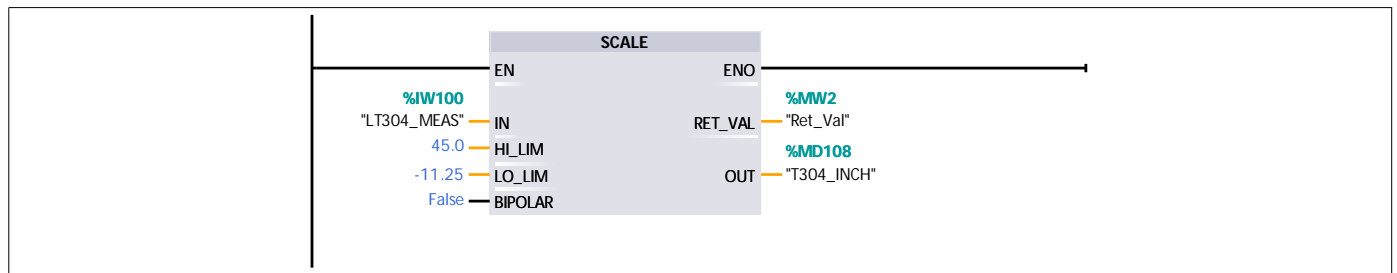
Network 3: Make sure maximum tank level within bounds.



Network 4: 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 5: P-303 pump control, on runs pump

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

