

Day Tank Level Control

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Additional internal memory:
None needed

Equation to convert LT304_MEAS into the level in inches:

$$T304_INCH = (LT304_MEAS - 6241 / 24965.0) * 45.0$$

Make sure minimum and maximum tank levels within bounds.

Minimum tank level
in inches

T304_LO_LVL

LES

Less Than (A<B)

Source A	F12:0
	0.0<
Source B	10.0
	10.0<

Minimum tank level
in inches

T304_LO_LVL

MOV

Move	
Source	10.0
	10.0<
Dest	F12:0
	0.0<

Maximum tank level
in inches

T304_HI_LVL

GRT

Greater Than (A>B)

Source A	F12:1
	0.0<
Source B	40.0
	40.0<

Maximum tank level
in inches

T304_HI_LVL

MOV

Move	
Source	40.0
	40.0<
Dest	F12:1
	0.0<

Convert level measurement to level in inches.

SUB

Subtract	
Source A	I:1.0
	0<
Source B	6241.0
	6241.0<
Dest	F8:0
	0.0<

DIV

Divide	
Source A	F8:0
	0.0<
Source B	24965.0
	24965.0<
Dest	F8:0
	0.0<

Current tank level
in inches

T304_INCH

MUL

Multiply	
Source A	F8:0
	0.0<
Source B	45.0
	45.0<
Dest	F12:2
	0.0<

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

Enable day tank
control, on allows
day tank to operate.
When off, valve is
closed and pump off.

T304_ENABLE

B3/20

Current tank level
in inches

T304_INCH

LES
Less Than (A<B)

Source A F12:2
0.0<
Source B F12:0
0.0<

P-303 pump control,
on runs pump

P303_RUN

O:0/0

Current tank level
in inches

T304_INCH

LEQ
Less Than or Eql (A<=B)

Source A F12:2
0.0<
Source B F12:1
0.0<

P-303 pump control,
on runs pump

P303_RUN

O:0/0

XV303 valve control,
on opens valve, off
closes valve

XV303_SOL

O:0/1

END

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