

## Example 7.4 - Simple tank level control

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Convert level measurement into units of feet

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SCP	
Scale w/Parameters	
Input	I:1.0
	0<
Input Min.	6241
	6241<
Input Max.	31206
	31206<
Scaled Min.	100
	100<
Scaled Max.	1500
	1500<
Output	N7:0
	1050<

Level of tank in  
feet

LT428\_VAL

DIV	
Divide	
Source A	N7:0
	1050<
Source B	100.0
	100.0<
Dest	F8:20
	10.5<

## Control of Physical Outputs

Level of tank in  
feet

LT428\_VAL

Level of tank in  
feet

LT428\_VAL

Enables level  
control

T428\_CNTRL

Inlet valve control

XV427\_OPEN

0001

LES	
Less Than (A<B)	
Source A	F8:20
	10.5<
Source B	F8:21
	0.0<

Inlet valve control

XV427\_OPEN

O:0/0

LEQ	
Less Than or Eql (A<=B)	
Source A	F8:20
	10.5<
Source B	F8:22
	0.0<

B3/121

O:0/0

0002

&lt;END&gt;

## RSLogix 500 Cross Reference Report - Sorted by Address

O:0/0	- {XV427_OPEN} Inlet valve control OTE - File #2 - 1 XIC - File #2 - 1
I:1.0	- {LT428_MEAS} Level measurement SCP - File #2 - 0
B3/121	- {T428_CNTRL} Enables level control XIC - File #2 - 1
N7:0	- DIV - File #2 - 0 SCP - File #2 - 0
F8:20	- {LT428_VAL} Level of tank in feet DIV - File #2 - 0 LES - File #2 - 1 LEQ - File #2 - 1
F8:21	- {T428_MIN} Minimum tank level for control LES - File #2 - 1
F8:22	- {T428_MAX} Maximum tank level for control LEQ - File #2 - 1