

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	N7:10
	6300<
Input Min.	3277.0
	3277.0<
Input Max.	16384.0
	16384.0<
Scaled Min.	1.0
	1.0<
Scaled Max.	15.0
	15.0<
Output	N7:0
	0<

Level of tank in
feet

LT428_VAL

DIV	
Divide	
Source A	N7:0
	0<
Source B	100.0
	100.0<
Dest	F8:20
	1.033086<

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
	1.033086<
Source B	F8:21
	0.0<

Inlet valve control

XV427_OPEN

O:2/0

LEQ	
Less Than or Eql (A<=B)	
Source A	F8:20
	1.033086<
Source B	F8:22
	0.0<

B3/121

O:2/0

0002

<END>

RSLogix 500 Cross Reference Report - Sorted by Address

O:2/0	- {XV427_OPEN} Inlet valve control OTE - File #2 - 1 XIC - File #2 - 1
B3/121	- {T428_CNTRL} Enables level control XIC - File #2 - 1
N7:0	- DIV - File #2 - 0 SCP - File #2 - 0
N7:10	- SCP - File #2 - 0
F8:20	- {LT428_VAL} Level of tank in feet LES - File #2 - 1 LEQ - File #2 - 1 DIV - File #2 - 0
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