

# TECHNICAL DOCUMENTATION

## SP12\_04

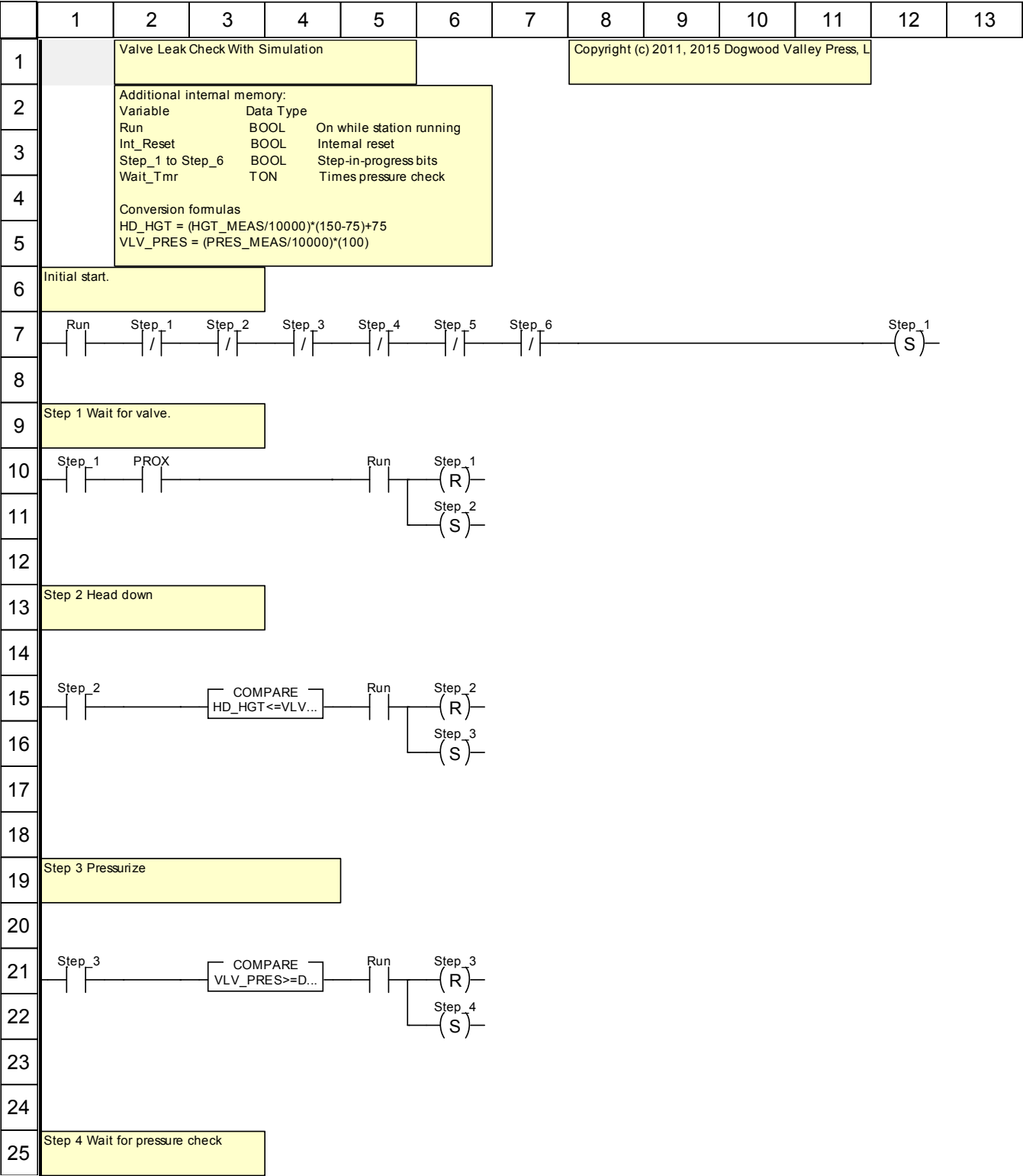
Project	SP12_04
Designer	
Application	sp21_04.stu
Software Version	Unity Pro L V10.0
Creation Date	4/12/2011 8:52:23 PM
Last Modification Date	12/24/2015 7:18:56 AM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

# MAST

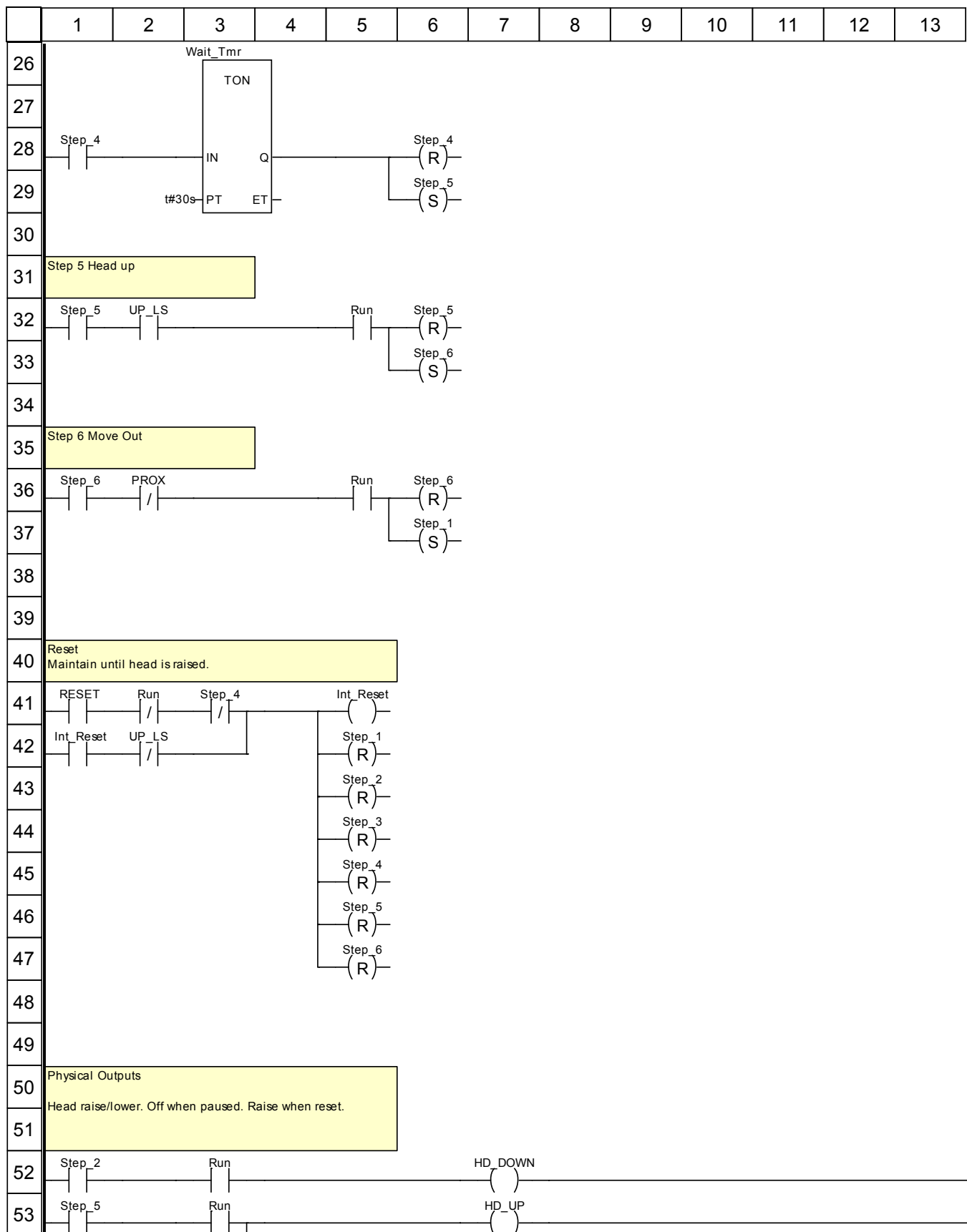
**Specific properties**

Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

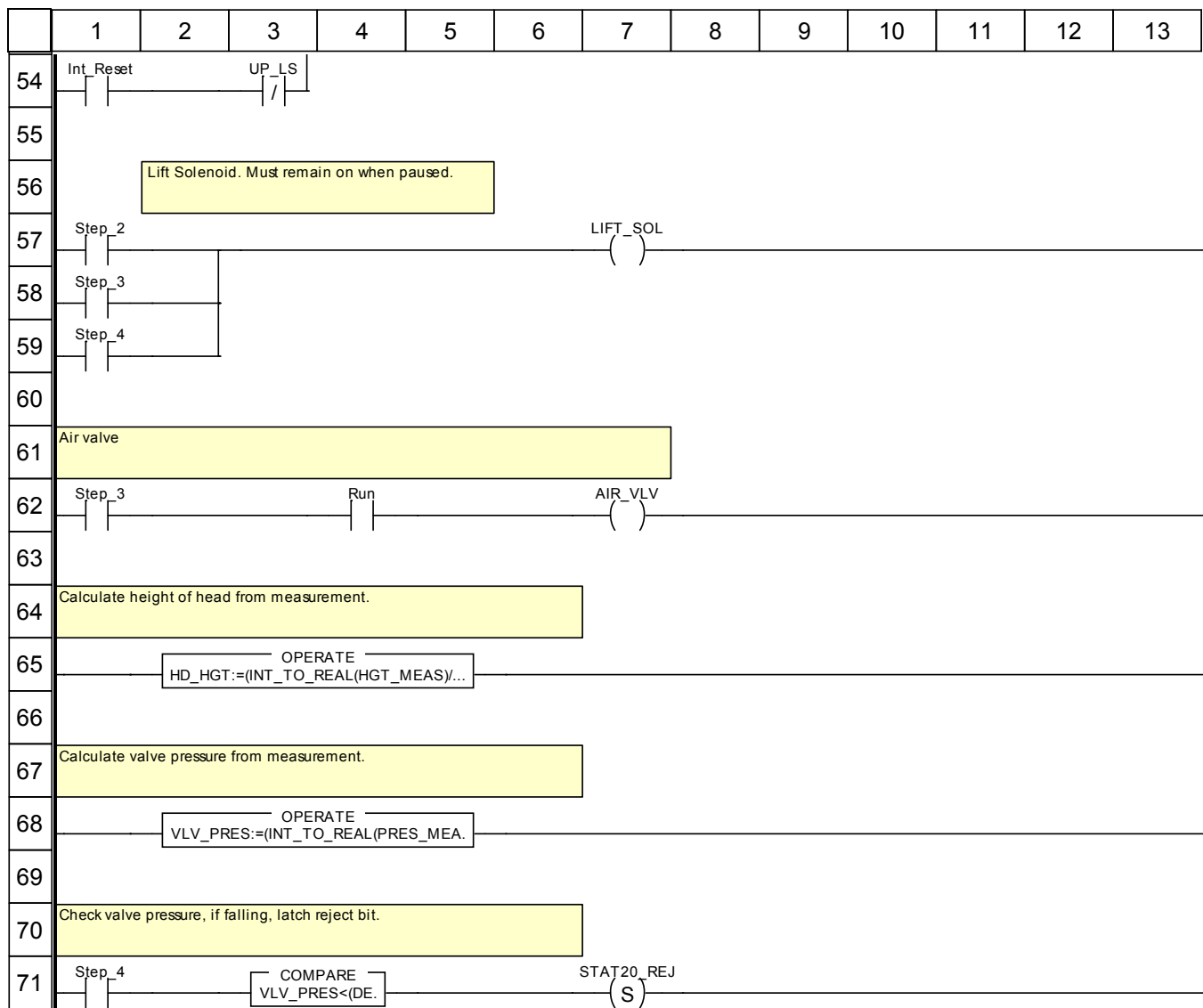
main : [MAST]



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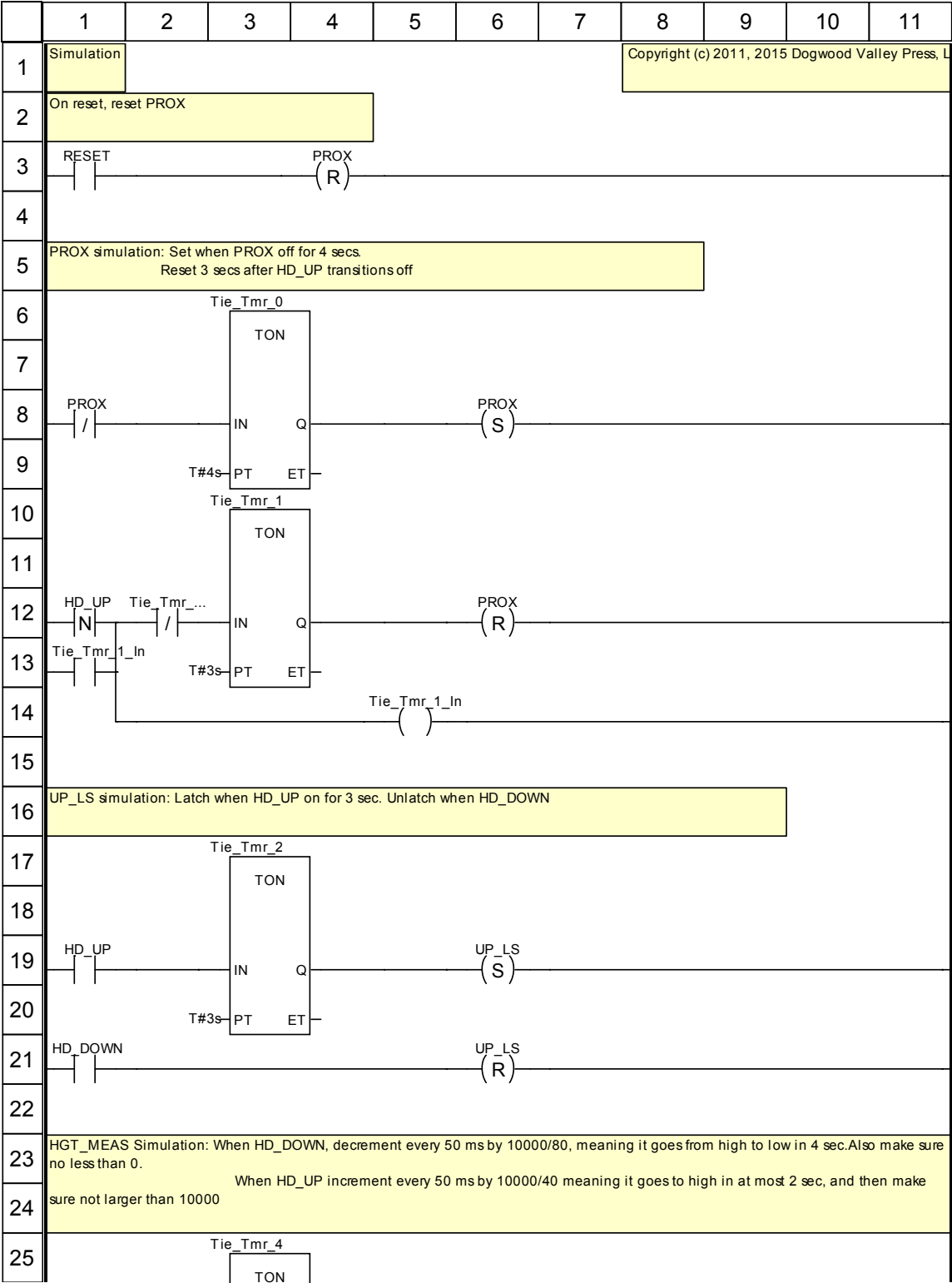
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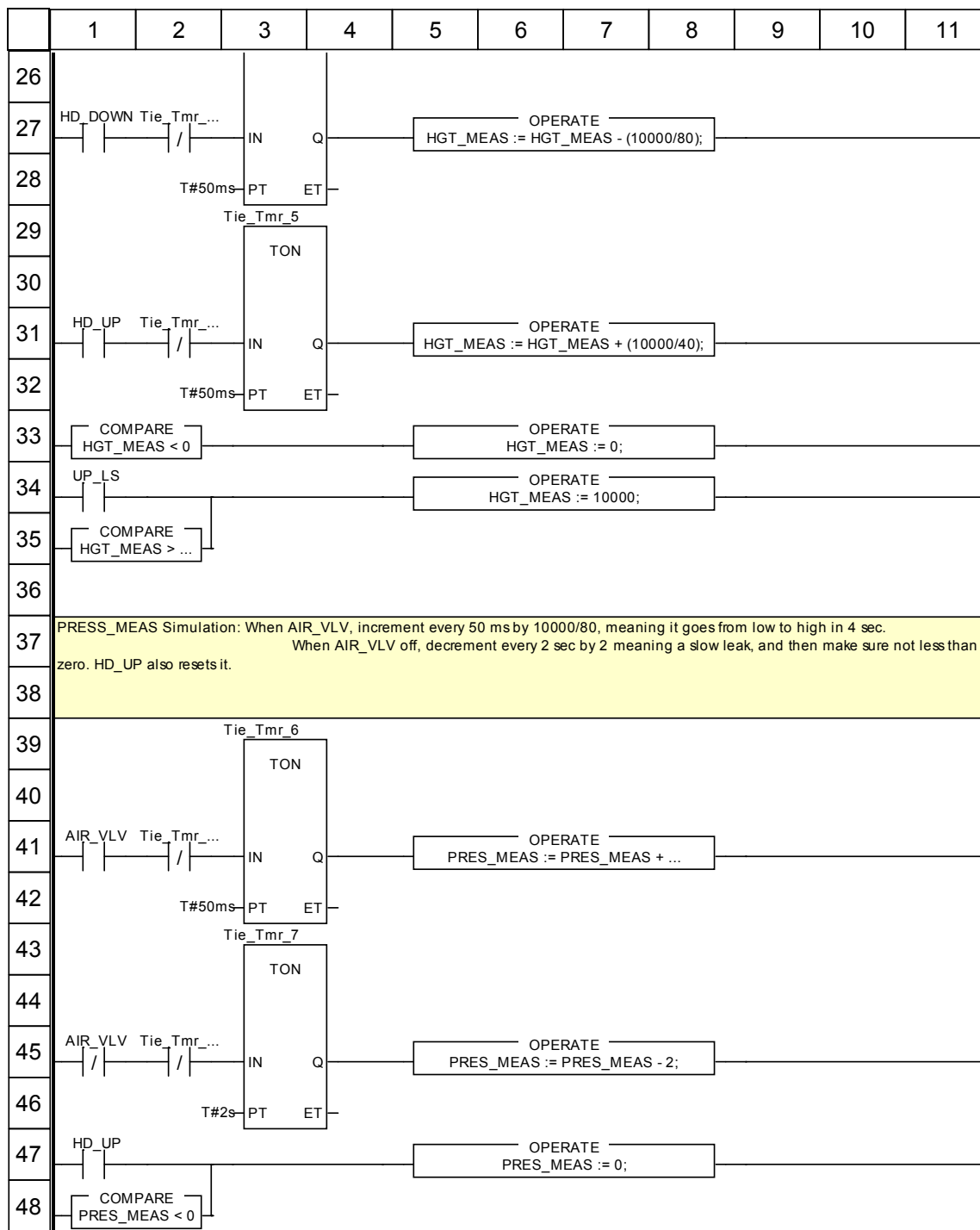
### Truncated labels:

Label	Position(s)
HD HGT:=(INT TO REAL(HGT_MEAS)/10000.0)*(150.0-75.0)+75.0;	(2, 65)
HD HGT<=VLV HGT	(3, 15)
VLV PRES:=(INT TO REAL(PRES_MEAS)/10000.0)*(100.0-0.0)+0.0;	(2, 68)
VLV PRES<=(DES PRES-0.1)	(3, 71)
VLV PRES>=DES PRES	(3, 21)



# Simulation : [MAST]





## Truncated labels:

Label	Position(s)
HGT_MEAS > 10000	(1, 35)
PRES_MEAS := PRES_MEAS + (10000/80);	(5, 41)
Tie_Tmr_1.Q	(2, 12)
Tie_Tmr_4.Q	(2, 27)
Tie_Tmr_5.Q	(2, 31)
Tie_Tmr_6.Q	(2, 41)
Tie_Tmr_7.Q	(2, 45)

# Cross References

## Application:

### Addresses

Object	Referred into	Location	Usage
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### Variables or FB instances

Object	Referred into	Location	Usage
AIR_VLV	main : [MAST]	(I 62, c: 7)	W
	Simulation : [MAST]	(I 41, c: 1)	R
		(I 45, c: 1)	R
DES_PRES	main : [MAST]	(I 21, c: 3)	R
		(I 71, c: 3)	R
HD_DOWN	main : [MAST]	(I 52, c: 7)	W
	Simulation : [MAST]	(I 21, c: 1)	R
		(I 27, c: 1)	R
HD_HGT	main : [MAST]	(I 15, c: 3)	R
		(I 65, c: 2)	W
HD_UP	main : [MAST]	(I 53, c: 7)	W
	Simulation : [MAST]	(I 12, c: 1)	R
		(I 19, c: 1)	R
		(I 31, c: 1)	R
		(I 47, c: 1)	R
HGT_MEAS	main : [MAST]	(I 65, c: 2)	R
	Simulation : [MAST]	(I 27, c: 5)	R
		(I 27, c: 5)	W
		(I 31, c: 5)	R
		(I 31, c: 5)	W
		(I 33, c: 1)	R
		(I 33, c: 5)	W
		(I 34, c: 5)	W
		(I 35, c: 1)	R
		(I 41, c: 5)	W
Int_Reset	main : [MAST]	(I 42, c: 1)	R
		(I 54, c: 1)	R
		(I 57, c: 7)	W
LIFT_SOL	main : [MAST]	(I 68, c: 2)	R
PRES_MEAS	Simulation : [MAST]	(I 41, c: 5)	R
		(I 41, c: 5)	W
		(I 45, c: 5)	R
		(I 45, c: 5)	W
		(I 47, c: 5)	W
		(I 48, c: 1)	R
	main : [MAST]	(I 10, c: 2)	R
		(I 36, c: 2)	R
PROX	Simulation : [MAST]	(I 3, c: 4)	W
		(I 8, c: 1)	R
		(I 8, c: 6)	W
		(I 12, c: 6)	W
	main : [MAST]	(I 41, c: 1)	R
RESET	Simulation : [MAST]	(I 3, c: 1)	R
	main : [MAST]	(I 7, c: 1)	R
Run		(I 10, c: 5)	R

## Cross References

Object	Referred into	Location	Usage
		(l 15, c: 5)	R
		(l 21, c: 5)	R
		(l 32, c: 5)	R
		(l 36, c: 5)	R
		(l 41, c: 2)	R
		(l 52, c: 3)	R
		(l 53, c: 3)	R
		(l 62, c: 4)	R
STAT20_REJ	main : [MAST]	(l 71, c: 7)	W
Step_1	main : [MAST]	(l 7, c: 2)	R
		(l 7, c: 12)	W
		(l 10, c: 1)	R
		(l 10, c: 6)	W
		(l 37, c: 6)	W
		(l 42, c: 5)	W
Step_2	main : [MAST]	(l 7, c: 3)	R
		(l 11, c: 6)	W
		(l 15, c: 1)	R
		(l 15, c: 6)	W
		(l 43, c: 5)	W
		(l 52, c: 1)	R
		(l 57, c: 1)	R
Step_3	main : [MAST]	(l 7, c: 4)	R
		(l 16, c: 6)	W
		(l 21, c: 1)	R
		(l 21, c: 6)	W
		(l 44, c: 5)	W
		(l 58, c: 1)	R
		(l 62, c: 1)	R
Step_4	main : [MAST]	(l 7, c: 5)	R
		(l 22, c: 6)	W
		(l 28, c: 1)	R
		(l 28, c: 6)	W
		(l 41, c: 3)	R
		(l 45, c: 5)	W
		(l 59, c: 1)	R
		(l 71, c: 1)	R
Step_5	main : [MAST]	(l 7, c: 6)	R
		(l 29, c: 6)	W
		(l 32, c: 1)	R
		(l 32, c: 6)	W
		(l 46, c: 5)	W
		(l 53, c: 1)	R
Step_6	main : [MAST]	(l 7, c: 7)	R
		(l 33, c: 6)	W
		(l 36, c: 1)	R
		(l 36, c: 6)	W
		(l 47, c: 5)	W
Tie_Tmr_0	Simulation : [MAST]	(l 6, c: 3)	FC
		(l 6, c: 3)	R
		(l 6, c: 3)	R
Tie_Tmr_1	Simulation : [MAST]	(l 12, c: 2)	R
		(l 10, c: 3)	FC
		(l 10, c: 3)	R
		(l 10, c: 3)	R

## Cross References

Object	Referred into	Location	Usage
Tie_Tmr_1_In	Simulation : [MAST]	(l 13, c: 1)	R
		(l 14, c: 5)	W
Tie_Tmr_2	Simulation : [MAST]	(l 17, c: 3)	FC
		(l 17, c: 3)	R
		(l 17, c: 3)	R
Tie_Tmr_4	Simulation : [MAST]	(l 27, c: 2)	R
		(l 25, c: 3)	FC
		(l 25, c: 3)	R
		(l 25, c: 3)	R
Tie_Tmr_5	Simulation : [MAST]	(l 31, c: 2)	R
		(l 29, c: 3)	FC
		(l 29, c: 3)	R
		(l 29, c: 3)	R
Tie_Tmr_6	Simulation : [MAST]	(l 41, c: 2)	R
		(l 39, c: 3)	FC
		(l 39, c: 3)	R
		(l 39, c: 3)	R
Tie_Tmr_7	Simulation : [MAST]	(l 45, c: 2)	R
		(l 43, c: 3)	FC
		(l 43, c: 3)	R
		(l 43, c: 3)	R
UP_LS	main : [MAST]	(l 32, c: 2)	R
		(l 42, c: 2)	R
		(l 54, c: 3)	R
	Simulation : [MAST]	(l 19, c: 6)	W
		(l 21, c: 6)	W
		(l 34, c: 1)	R
VLV_HGT	main : [MAST]	(l 15, c: 3)	R
VLV_PRES	main : [MAST]	(l 21, c: 3)	R
		(l 68, c: 2)	W
		(l 71, c: 3)	R
Wait_Tmr	main : [MAST]	(l 26, c: 3)	FC
		(l 26, c: 3)	R
		(l 26, c: 3)	R

### EF objects

Object	Referred into	Location	Usage
int_to_real	main : [MAST]	(l 68, c: 2)	FC
		(l 65, c: 2)	FC