

TECHNICAL DOCUMENTATION

Example 7.6

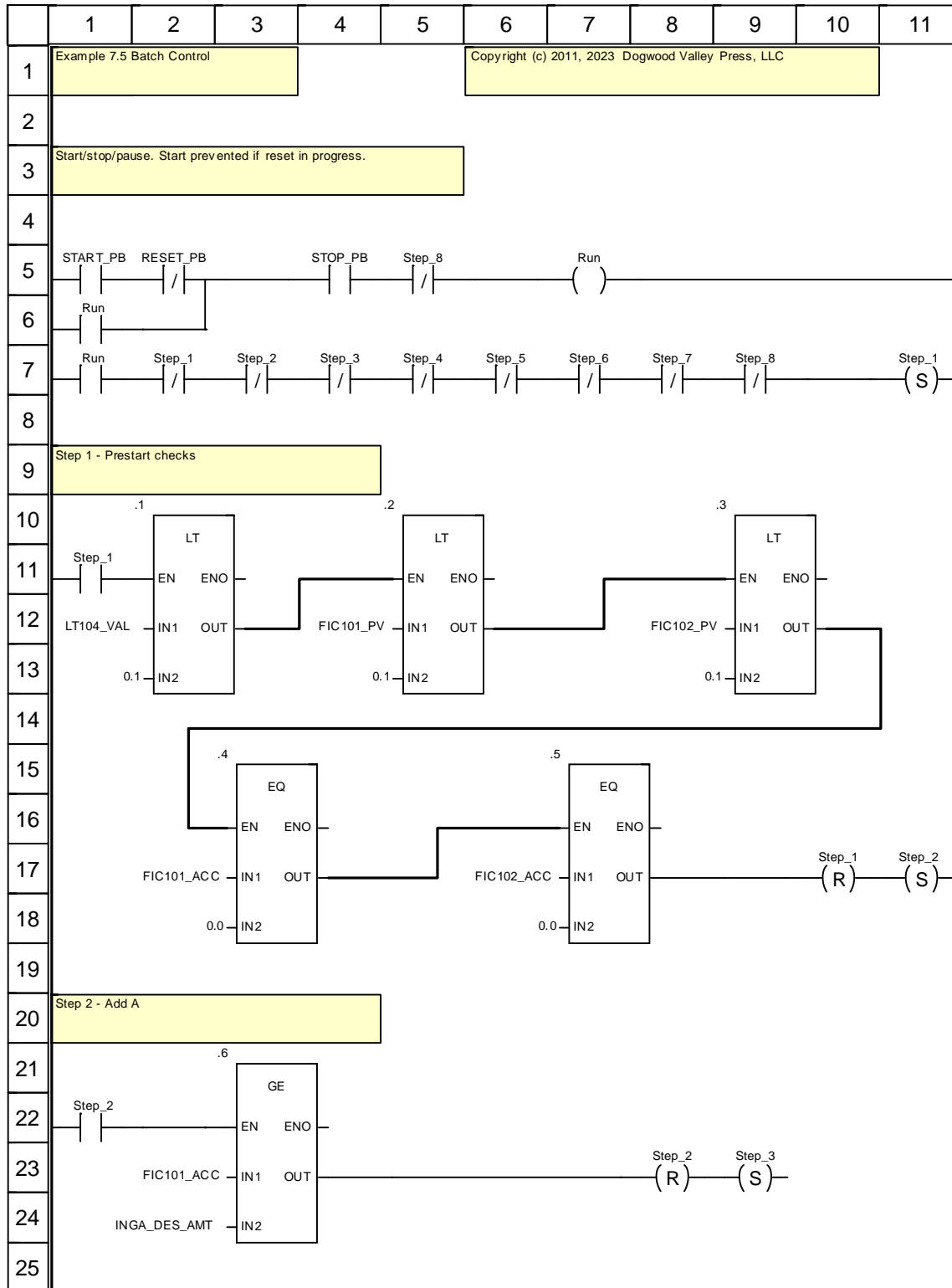
Project	Example 7.6
Designer	
Application	example_7_6.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/15/2023 8:26:45 PM
Last Modification Date	6/15/2023 8:29:57 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

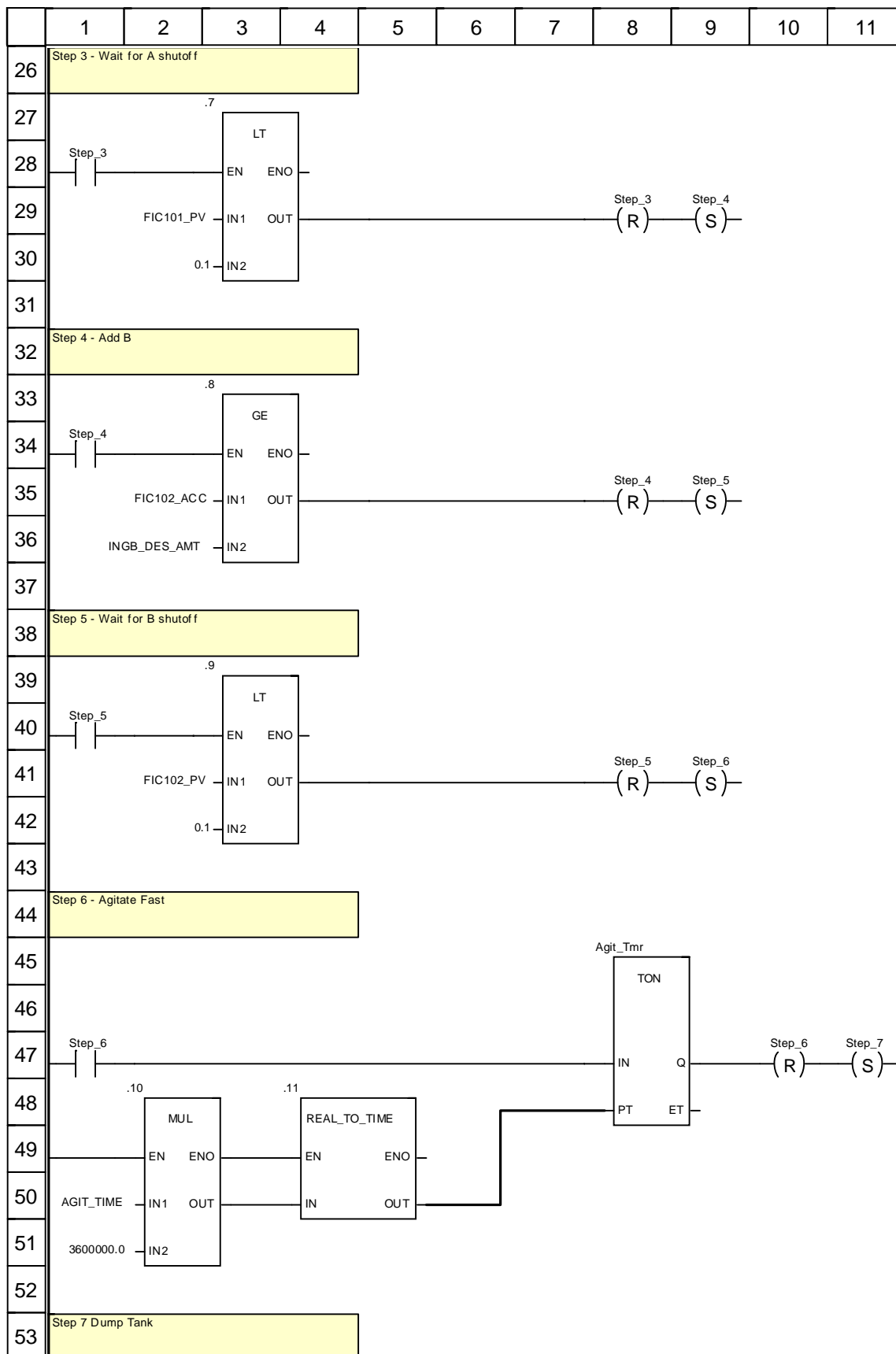
MAST

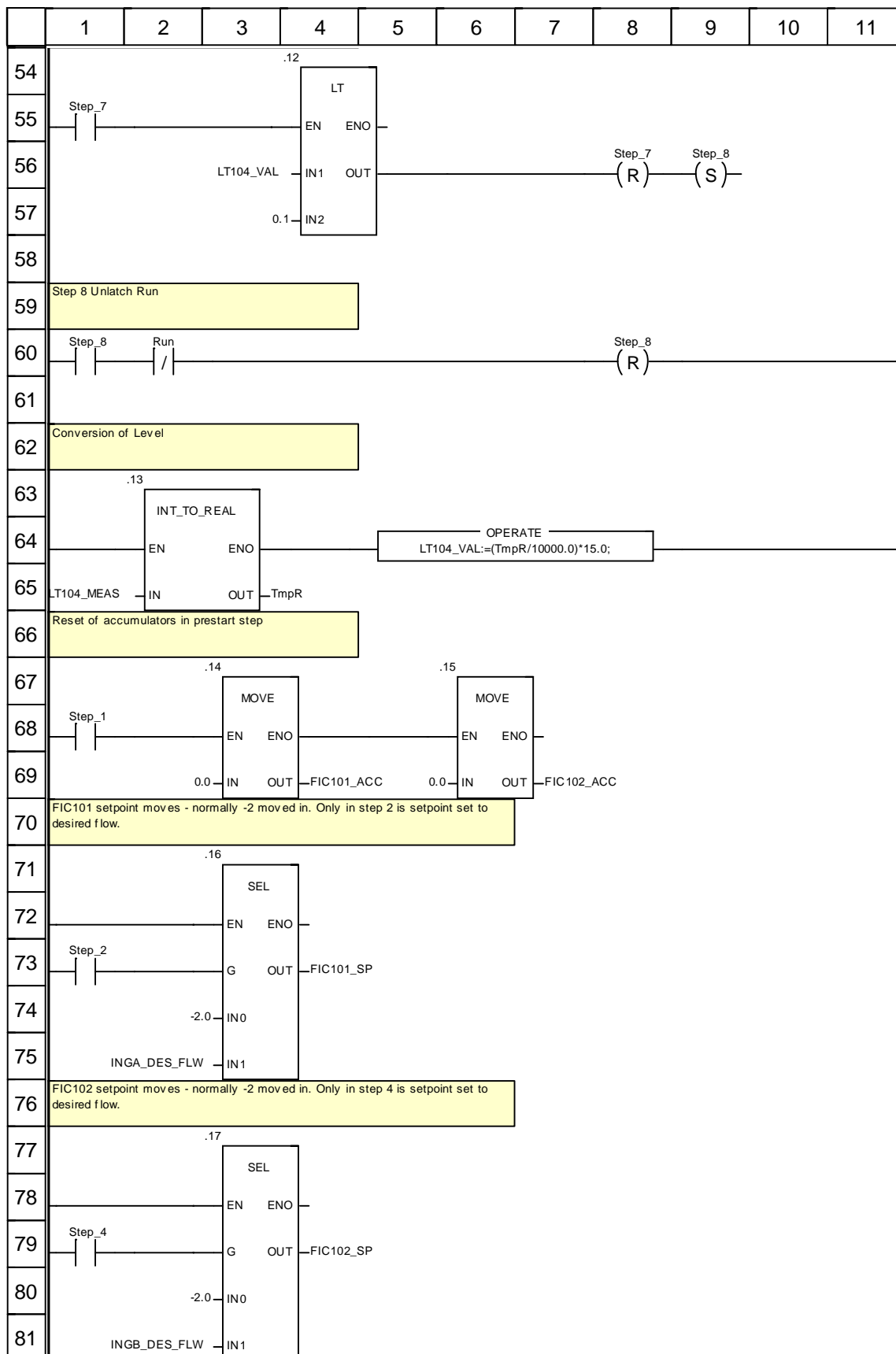
Specific properties

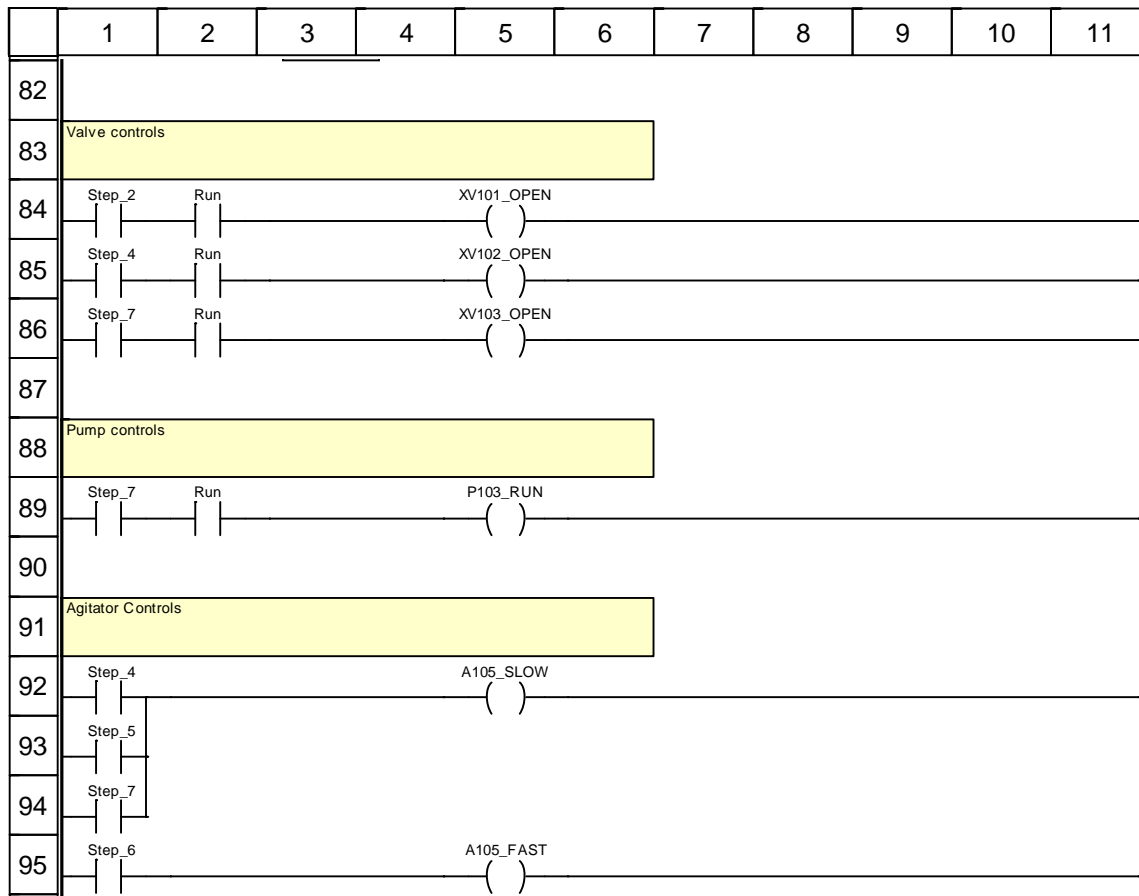
Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

Main : [MAST]

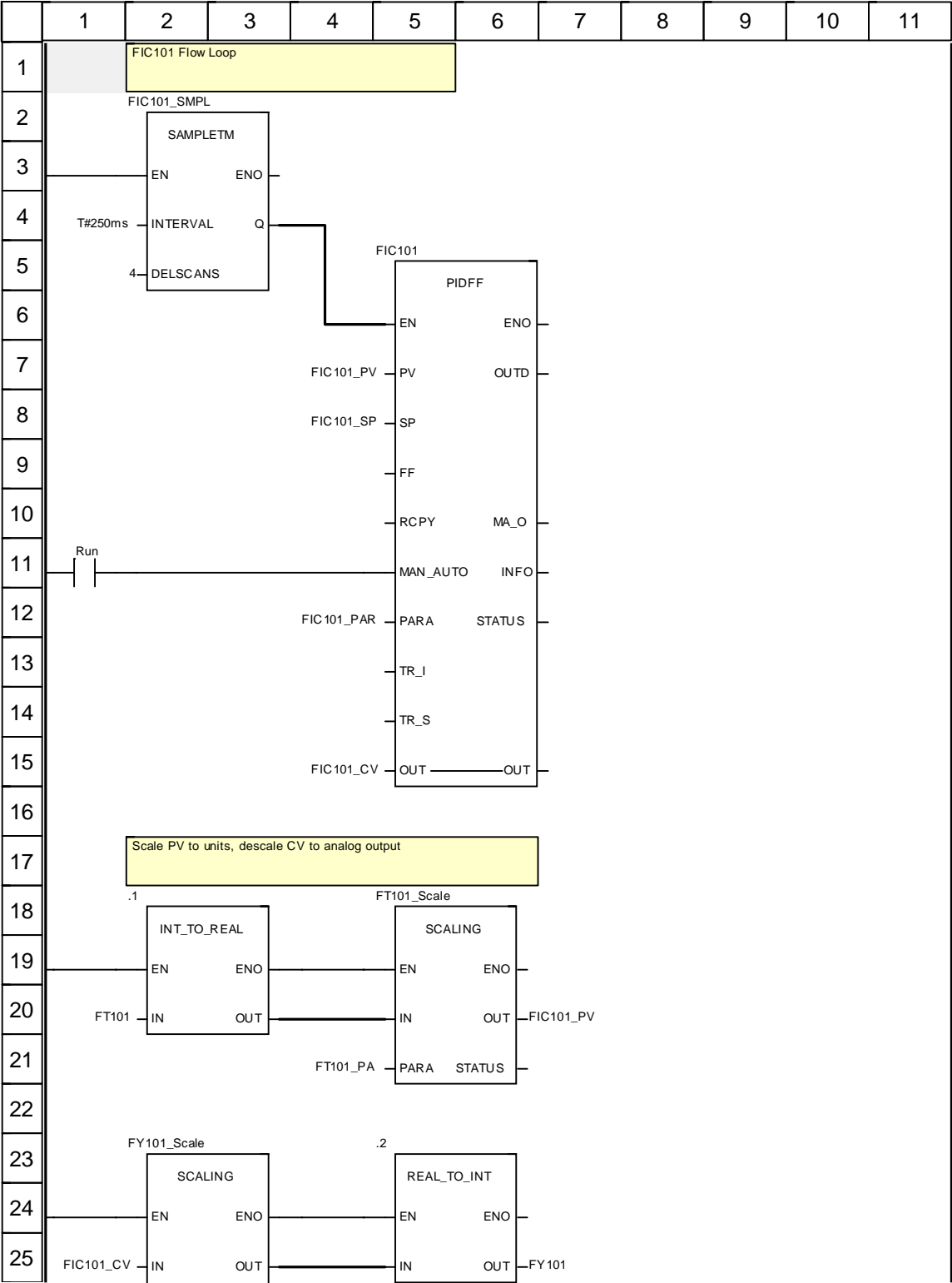


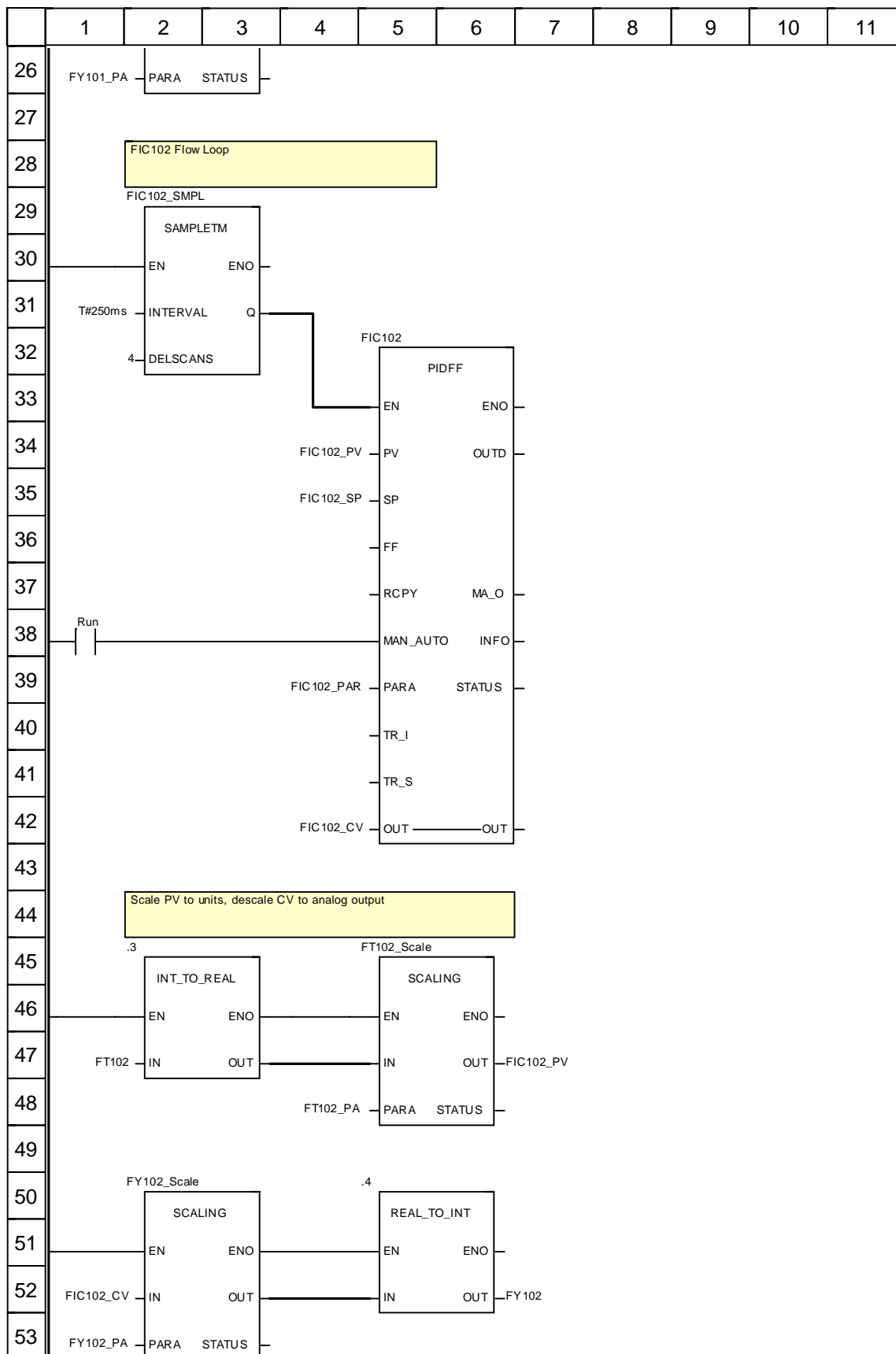


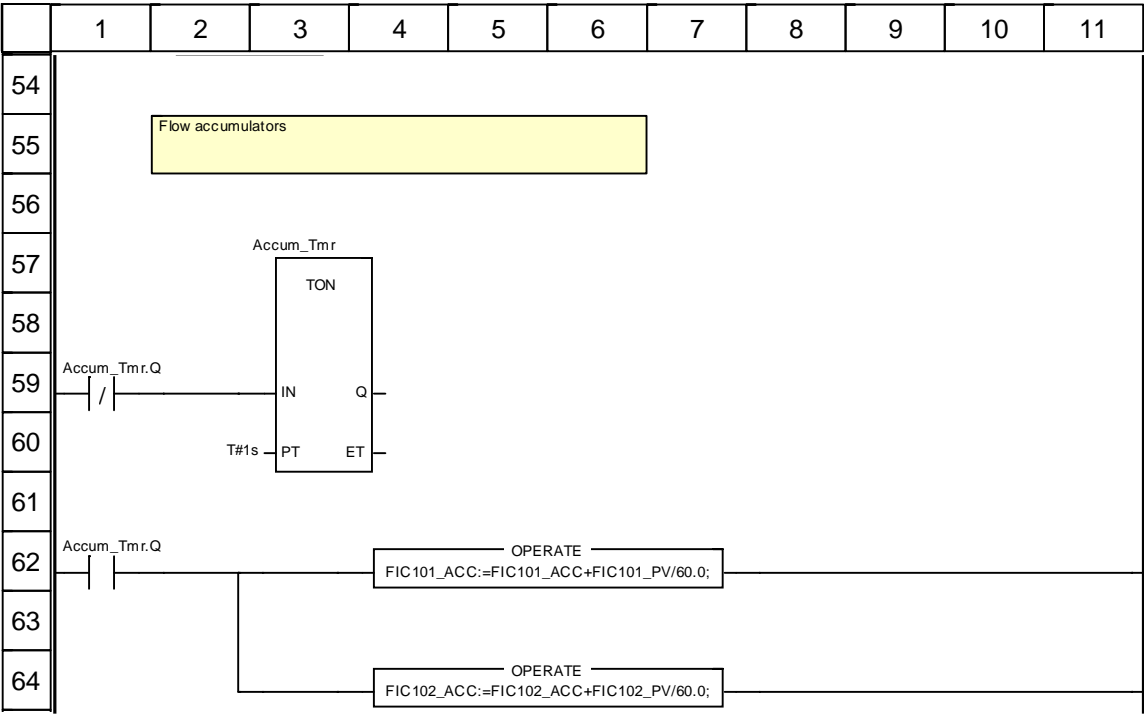




PID_Loops : [MAST]







FAST

Specific properties

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

Evt0 <I/O Event>

Cross References

Application:

Addresses

Object	Referred into	Location	Usage
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Variables or FB instances

Object	Referred into	Location	Usage
A105_FAST	Main : [MAST]	(I 95, c: 5)	W
A105_SLOW	Main : [MAST]	(I 92, c: 5)	W
Accum_Tmr	PID_Loops : [MAST]	(I 59, c: 1)	R
		(I 62, c: 1)	R
		(I 57, c: 3)	FC
AGIT_TIME	Main : [MAST]	(I 48, c: 2)	R
Agit_Tmr	Main : [MAST]	(I 45, c: 8)	FC
FIC101	PID_Loops : [MAST]	(I 5, c: 5)	FC
FIC101_ACC	Main : [MAST]	(I 67, c: 3)	W
		(I 15, c: 3)	R
		(I 21, c: 3)	R
	PID_Loops : [MAST]	(I 62, c: 4)	R
		(I 62, c: 4)	W
FIC101_CV	PID_Loops : [MAST]	(I 5, c: 5)	R/W
		(I 23, c: 2)	R
FIC101_PAR	PID_Loops : [MAST]	(I 5, c: 5)	R
FIC101_PV	Main : [MAST]	(I 10, c: 5)	R
		(I 27, c: 3)	R
	PID_Loops : [MAST]	(I 5, c: 5)	R
		(I 18, c: 5)	W
		(I 62, c: 4)	R
FIC101_SMPL	PID_Loops : [MAST]	(I 2, c: 2)	FC
FIC101_SP	Main : [MAST]	(I 71, c: 3)	W
	PID_Loops : [MAST]	(I 5, c: 5)	R
FIC102	PID_Loops : [MAST]	(I 32, c: 5)	FC
FIC102_ACC	Main : [MAST]	(I 67, c: 6)	W
		(I 15, c: 7)	R
		(I 33, c: 3)	R
	PID_Loops : [MAST]	(I 64, c: 4)	R
		(I 64, c: 4)	W
FIC102_CV	PID_Loops : [MAST]	(I 32, c: 5)	R/W
		(I 50, c: 2)	R
FIC102_PAR	PID_Loops : [MAST]	(I 32, c: 5)	R
FIC102_PV	Main : [MAST]	(I 10, c: 9)	R
		(I 39, c: 3)	R
	PID_Loops : [MAST]	(I 32, c: 5)	R
		(I 45, c: 5)	W
		(I 64, c: 4)	R
FIC102_SMPL	PID_Loops : [MAST]	(I 29, c: 2)	FC
FIC102_SP	Main : [MAST]	(I 77, c: 3)	W
	PID_Loops : [MAST]	(I 32, c: 5)	R
FT101	PID_Loops : [MAST]	(I 18, c: 2)	R
FT101_PA	PID_Loops : [MAST]	(I 18, c: 5)	R
FT101_Scale	PID_Loops : [MAST]	(I 18, c: 5)	FC
FT102	PID_Loops : [MAST]	(I 45, c: 2)	R

Cross References

Object	Referred into	Location	Usage
FT102_PA	PID_Loops : [MAST]	(I 45, c: 5)	R
FT102_Scale	PID_Loops : [MAST]	(I 45, c: 5)	FC
FY101	PID_Loops : [MAST]	(I 23, c: 5)	W
FY101_PA	PID_Loops : [MAST]	(I 23, c: 2)	R
FY101_Scale	PID_Loops : [MAST]	(I 23, c: 2)	FC
FY102	PID_Loops : [MAST]	(I 50, c: 5)	W
FY102_PA	PID_Loops : [MAST]	(I 50, c: 2)	R
FY102_Scale	PID_Loops : [MAST]	(I 50, c: 2)	FC
INGA_DES_AMT	Main : [MAST]	(I 21, c: 3)	R
INGA_DES_FLW	Main : [MAST]	(I 71, c: 3)	R
INGB_DES_AMT	Main : [MAST]	(I 33, c: 3)	R
INGB_DES_FLW	Main : [MAST]	(I 77, c: 3)	R
LT104_MEAS	Main : [MAST]	(I 63, c: 2)	R
LT104_VAL	Main : [MAST]	(I 10, c: 2)	R
		(I 64, c: 5)	W
		(I 54, c: 4)	R
PI03_RUN	Main : [MAST]	(I 89, c: 5)	W
RESET_PB	Main : [MAST]	(I 5, c: 2)	R
Run	Main : [MAST]	(I 5, c: 7)	W
		(I 6, c: 1)	R
		(I 7, c: 1)	R
		(I 60, c: 2)	R
		(I 84, c: 2)	R
		(I 85, c: 2)	R
		(I 86, c: 2)	R
		(I 89, c: 2)	R
	PID_Loops : [MAST]	(I 11, c: 1)	R
		(I 38, c: 1)	R
START_PB	Main : [MAST]	(I 5, c: 1)	R
Step_1	Main : [MAST]	(I 7, c: 2)	R
		(I 7, c: 11)	W
		(I 11, c: 1)	R
		(I 68, c: 1)	R
		(I 17, c: 10)	W
Step_2	Main : [MAST]	(I 7, c: 3)	R
		(I 22, c: 1)	R
		(I 73, c: 1)	R
		(I 84, c: 1)	R
		(I 17, c: 11)	W
		(I 23, c: 8)	W
Step_3	Main : [MAST]	(I 7, c: 4)	R
		(I 28, c: 1)	R
		(I 23, c: 9)	W
		(I 29, c: 8)	W
Step_4	Main : [MAST]	(I 7, c: 5)	R
		(I 34, c: 1)	R
		(I 79, c: 1)	R
		(I 85, c: 1)	R
		(I 92, c: 1)	R
		(I 29, c: 9)	W
		(I 35, c: 8)	W
Step_5	Main : [MAST]	(I 7, c: 6)	R
		(I 40, c: 1)	R
		(I 93, c: 1)	R
		(I 35, c: 9)	W

Cross References

Object	Referred into	Location	Usage
		(l 41, c: 8)	W
Step_6	Main : [MAST]	(l 7, c: 7)	R
		(l 47, c: 1)	R
		(l 95, c: 1)	R
		(l 41, c: 9)	W
		(l 47, c: 10)	W
Step_7	Main : [MAST]	(l 7, c: 8)	R
		(l 55, c: 1)	R
		(l 86, c: 1)	R
		(l 89, c: 1)	R
		(l 94, c: 1)	R
		(l 47, c: 11)	W
		(l 56, c: 8)	W
Step_8	Main : [MAST]	(l 5, c: 5)	R
		(l 7, c: 9)	R
		(l 60, c: 1)	R
		(l 60, c: 8)	W
		(l 56, c: 9)	W
STOP_PB	Main : [MAST]	(l 5, c: 4)	R
TmpR	Main : [MAST]	(l 63, c: 2)	W
		(l 64, c: 5)	R
XV101_OPEN	Main : [MAST]	(l 84, c: 5)	W
XV102_OPEN	Main : [MAST]	(l 85, c: 5)	W
XV103_OPEN	Main : [MAST]	(l 86, c: 5)	W

EF objects

Object	Referred into	Location	Usage
eq	Main : [MAST]	(l 15, c: 3)	FC
		(l 15, c: 7)	FC
eq_real	Main : [MAST]	(l 15, c: 3)	FC
		(l 15, c: 7)	FC
ge	Main : [MAST]	(l 21, c: 3)	FC
		(l 33, c: 3)	FC
ge_real	Main : [MAST]	(l 21, c: 3)	FC
		(l 33, c: 3)	FC
int_to_real	Main : [MAST]	(l 63, c: 2)	FC
	PID_Loops : [MAST]	(l 18, c: 2)	FC
		(l 45, c: 2)	FC
lt	Main : [MAST]	(l 10, c: 9)	FC
		(l 10, c: 2)	FC
		(l 10, c: 5)	FC
		(l 27, c: 3)	FC
		(l 39, c: 3)	FC
		(l 54, c: 4)	FC
lt_real	Main : [MAST]	(l 10, c: 9)	FC
		(l 10, c: 2)	FC
		(l 10, c: 5)	FC
		(l 27, c: 3)	FC
		(l 39, c: 3)	FC
		(l 54, c: 4)	FC
move	Main : [MAST]	(l 67, c: 6)	FC
		(l 67, c: 3)	FC
mul	Main : [MAST]	(l 48, c: 2)	FC
mul_real	Main : [MAST]	(l 48, c: 2)	FC

Cross References

Object	Referred into	Location	Usage
real_to_int	PID_Loops : [MAST]	(l: 23, c: 5)	FC
		(l: 50, c: 5)	FC
real_to_time	Main : [MAST]	(l: 48, c: 4)	FC
sel	Main : [MAST]	(l: 77, c: 3)	FC
		(l: 71, c: 3)	FC

Subroutines

Object	Referred into	Location	Usage
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