

TECHNICAL DOCUMENTATION

Example 13.3

Project	Example 13.3
Designer	
Application	example_13_3.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/16/2023 2:05:51 PM
Last Modification Date	6/16/2023 2:05:51 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

MAST

Specific properties

Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

Tank_Control : [MAST]

```
120| 1| 10| 20| 30| 40| 50| 60| 70| 80| 90| 100| 110|
134|
1 (* Example 13.3 *)
2 (* Copyright (c) 2011 Dogwood Valley Press, LLC *)
3
4 (* Convert analog input to level *)
5 LD 15.0
6 SUB 1.0
7 ST TmpR
8 LD LT428_MEAS
9 INT_TO_REAL
10 MUL TmpR
11 DIV 10000.0
12 ADD 1.0
13 ST LT428_VAL
14
15 (* Level control: turn on when low, turn off when *)
16 (* high. If not enabled, always turn off *)
17 LD LT428_VAL
18 LT T428_MIN
19 OR XV427_OPEN
20 AND (
21 LD LT428_VAL
22 LE T428_MAX
23 )
24 AND T428_CNTRL
25 ST XV427_OPEN
```

FAST

Specific properties

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

Cross References

Application:

Addresses

Object	Referred into	Location	Usage
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Variables or FB instances

Object	Referred into	Location	Usage
LT428_MEAS	Tank_Control : [MAST]	(l 8, c: 6)	R
LT428_VAL	Tank_Control : [MAST]	(l 13, c: 6)	W
		(l 17, c: 6)	R
		(l 21, c: 6)	R
T428_CNTRL	Tank_Control : [MAST]	(l 24, c: 7)	R
T428_MAX	Tank_Control : [MAST]	(l 22, c: 6)	R
T428_MIN	Tank_Control : [MAST]	(l 18, c: 6)	R
TmpR	Tank_Control : [MAST]	(l 7, c: 6)	W
		(l 10, c: 7)	R
XV427_OPEN	Tank_Control : [MAST]	(l 19, c: 6)	R
		(l 25, c: 6)	W

EF objects

Object	Referred into	Location	Usage
int_to_real	Tank_Control : [MAST]	(l 9, c: 2)	FC

Cross References

New_DFB:

Variables or FB instances

Object	Referred into	Location	Usage
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