

TECHNICAL DOCUMENTATION

Example 12.1

Project	Example 12.1
Designer	
Application	example_12_1.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/16/2023 9:55:14 AM
Last Modification Date	6/16/2023 9:55:14 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]

```
120|      1|      10|      20|      30|      40|      50|      60|      70|      80|      90|      100|      110|
      134|
1   (* Example 12.1 *)
2   (* Copyright (c) 2011 Dogwood Valley Press, LLC *)
3
4
5   TmpInt := TT573_MEAS;
6   IF (TmpInt < 0) THEN
7       TmpInt := 0;
8   END_IF;
9   IF (TmpInt > 10000) THEN
10      TmpInt := 10000;
11  END_IF;
12  TT573_DEGC := ((INT_TO_REAL(IN:=TmpInt)) / 10000.0) * (700.0 - 90.0) + 90.0;
13
14  TmpInt := LIMIT(IN:=TT573_MEAS, MN:=0, MX:=10000);
15  TT573_DEGC := ((INT_TO_REAL(IN:=TmpInt)) / 10000.0) * (700.0 - 90.0) + 90.0;
```

FAST

Specific properties

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

Cross References

Application:

Variables or FB instances

Object	Referred into	Location	Usage
TmpInt	Main : [MAST]	(l 5, c: 1)	W
		(l 6, c: 5)	R
		(l 7, c: 5)	W
		(l 9, c: 5)	R
		(l 10, c: 5)	W
		(l 12, c: 33)	R
		(l 14, c: 1)	W
		(l 15, c: 33)	R
TT573_DEGC	Main : [MAST]	(l 12, c: 1)	W
		(l 15, c: 1)	W
TT573_MEAS	Main : [MAST]	(l 5, c: 11)	R
		(l 14, c: 21)	R

EF objects

Object	Referred into	Location	Usage
int_to_real	Main : [MAST]	(l 12, c: 17)	FC
		(l 15, c: 17)	FC
limit	Main : [MAST]	(l 14, c: 11)	FC
limit_int	Main : [MAST]	(l 14, c: 11)	FC

Cross References

New_DFB:

Variables or FB instances

Object	Referred into	Location	Usage
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