

FC1 - <offline>

"Test_Conv"

Name:	Family:
Author:	Version: 0.1
	Block version: 2
Time stamp Code:	06/26/2011 08:08:11 PM
Interface:	05/15/2011 07:58:23 AM
Lengths (block/logic/data):	00094 00002 00000

Name	Data Type	Address	Comment
IN		0.0	
OUT		0.0	
IN_OUT		0.0	
TEMP		0.0	
RETURN		0.0	
RET_VAL		0.0	

Block: FC1 Example 13.1
Analog Conversion
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```
Network: 1

// Save transducer reading for min and max checks
L      "TT573_MEAS"
T      "TmpInt"
// Check for greater than minimum
L      5530
<I
JCN    TUpR
L      5530
T      "TmpInt"
// Check for less than maximum
TUpR: L      "TmpInt"
L      27648
>I
JCN    DoCv
L      27648
T      "TmpInt"
// Do conversion of transducer reading to temp. in degrees C
// (INT-TO-REAL(TmpInt)-5530)/22118)*(700-90)+90
DoCv: L      "TmpInt"
      ITD                      // Int to double
      DTR                      // double to real
L      5.530000e+003
-R                      // subtract 5530
L      2.211800e+004
/R                      // divide by 22118
T      "TmpR"                // Save for later multiply
L      7.000000e+002
L      9.000000e+001
-R                      // do 700 - 90
L      "TmpR"
*R                      // mult by result of 1st divide
L      9.000000e+001
+R                      // add 90
T      "TT573_DEGC"
```