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1  (* Example 12.1  Conversion of analog input *)  
2  
3  (* Copyright (c) 2011 Dogwood Valley Press, LLC *)  
4
```

```
5 FUNCTION Test_Conv: VOID
6
7 VAR_TEMP
8     MaxAI : INT;
9     MinAI : INT;
10    TmpInt : INT;
11 END_VAR
12
13 BEGIN
14     TmpInt := TT573_MEAS;
15     IF TmpInt < 5530 THEN
16         TmpInt := 5530;
17     END_IF;
18     IF TmpInt > 27648 THEN
19         TmpInt := 27648;
20     END_IF;
21     MaxAI := 27648;
22     MinAI := 5530;
23     TmpInt := LIMIT( IN:=TT573_MEAS, MN:=MinAI, MX:=MaxAI);
24     TT573_DEGC := ((TmpInt - 5530) / 22118.0) * (700.0 - 90.0) + 90.0;
25
26 END_FUNCTION
27
28
```