

```
1  (* Example 12.3 Simple Tank Level Control *)
2
3  (* Copyright (c) 2011 Dogwood Valley Press, LLC *)
4
```

```
5 FUNCTION LT428_Ctl: VOID
6
7
8 BEGIN
9     // Convert analog input to level
10    LT428_VAL := ((LT428_MEAS - 5530)/(22118.0))*(15.0-1.0) + 1.0;
11
12    // Level control: turn on when low, turn off when high.
13    // If not enabled, always turn off
14    IF T428_CNTRL THEN
15        IF (LT428_VAL < T428_MIN) THEN
16            XV427_OPEN := TRUE;
17        END IF;
18        IF (LT428_VAL > T428_MAX) THEN
19            XV427_OPEN := FALSE;
20        END IF;
21    ELSE
22        XV427_OPEN := FALSE;
23    END IF;
24 END_FUNCTION
```