

VARIABLES

```
VAR_GLOBAL RETAIN
TPower : REAL; (* Total power (Kw/h) *)
END_VAR
```

	Project : PowerMetering	
	VARIABLES :	
	Release : PowerMeter	Ver :1.00
	Author :	Date:08/03/2014
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VAR

```
Power : SysGetAnInp; (* Power reading *)
ICurrent : REAL; (* Instant current (A) *)
IPower : REAL; (* Instant power (W) *)
TimeBf : UDINT; (* Time buffer (uS) *)
END_VAR
```

```
1 (* ***** *)
2 (* PROGRAM "PowerCounter" *)
3 (* ***** *)
4 (* Eseguo calcolo potenza istantanea e potenza consumata. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* LETTURA POTENZA ISTANTANEA *)
9 (* ----- *)
10 (* Ipotizzo di acquisire la potenza istantanea da un trasduttore di *)
11 (* corrente 0-10 Volt con 30 A di fondo scala. *)
12
13 Power.Address:=0; (* Module address *)
14 Power.Channel:=0; (* Input channel *)
15 Power.Mode:=AD_VOLT_0_10_COMMON; (* Acquisition mode *)
16 Power(); (* Power reading *)
17
18 (* Calcolo potenza istantanea in Watt, tralascio il CosPhi. *)
19
20 ICurrent:=(Power.Value/10.0)*30.0; (* Instant current (A) *)
21 IPower:=ICurrent*220.0; (* Instant power (W) *)
22
23 (* ----- *)
24 (* CALCOLO POTENZA CONSUMATA *)
25 (* ----- *)
26 (* Incremento valore di potenza consumata sommando la potenza istantanea *)
27 (* ad ogni minuto. *)
28
29 IF ((SysGetSysTime(TRUE)-TimeBf) < 60000000) THEN RETURN; END_IF;
30 TimeBf:=SysGetSysTime(TRUE); (* Time buffer (uS) *)
31 TPower:=TPower+(IPower/60.0)/1000.0;
32
33 (* [End of file] *)
34
```

Project : PowerMetering

PROGRAM : PowerCalc

Release : PowerMeter

Ver :1.00

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Note :

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