

```

VAR
  OWMng : sOWireMng; (* One wire manager *)
  OWTemp : ARRAY[ 0..1 ] OF sOWRdTemperature; (* One wire read temperature *)
  OWID : sOWRdIdentifier; (* One wire identifier *)
  IDCode : ARRAY[ 0..7 ] OF BYTE; (* Device identifier code *)
  TSensor1 : ARRAY[ 0..7 ] OF BYTE := [16#28,16#99,16#85,16#8B,16#02,16#00,16#00,16#22]; (* ID sensor
e temperatura (1) *)
  TSensor0 : ARRAY[ 0..7 ] OF BYTE := [16#28,16#04,16#24,16#F9,16#05,16#00,16#00,16#F2]; (* ID sensor
e temperatura (1) *)
  END_VAR

```

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1 (* ***** *)
2 (* PROGRAM "ST" *)
3 (* ***** *)
4 (* Questo programma esegue l'acquisizione di sonde temperatura One-Wire. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* INIZIALIZZAZIONE *)
9 (* ----- *)
10 (* Program initialization. *)
11
12 IF (SysFirstLoop) THEN
13     OWMng.Enable:=TRUE; (* Enable *)
14     OWMng.File:=Sysfopen('COM0','rw'); (* File pointer *)
15     OWID.IDCode:=ADR(IDCode); (* Device identifier code *)
16 END_IF;
17
18 (* ----- *)
19 (* GESTIONE BUS ONE-WIRE *)
20 (* ----- *)
21 (* Gestione manager one wire. *)
22
23 OWMng(); (* One wire manager *)
24
25 (* Viene gestita l'acquisizione del IDCode del dispositivo connesso al *)
26 (* convertitore RS232/One-Wire. DConnettere un solo dispositivo. *)
27 (* Quando acquisisco l'ID non posso eseguire lettura temperatura. *)
28
29 OWID.IDCode:=ADR(IDCode); (* Device identifier code *)
30 OWID.MngID:=OWMng.MngID; (* Manager ID *)
31 OWID(Enable:=FALSE); (* One wire identifier *)
32 IF (OWID.Enable) THEN RETURN; END_IF;
33
34 (* ----- *)
35 (* GESTIONE BUS ONE-WIRE *)
36 (* ----- *)
37 (* Gestione manager one wire. *)
38 (* Gestione lettura temperatura. *)
39
40 OWTemp[0].IDCode:=ADR(TSensor0);
41 OWTemp[0].MngID:=OWMng.MngID; (* Manager ID *)
42 OWTemp[0](Enable:=NOT(OWTemp[1].Done));
43
44 OWTemp[1].IDCode:=ADR(TSensor1);
45 OWTemp[1].MngID:=OWMng.MngID; (* Manager ID *)
46 OWTemp[1](Enable:=OWTemp[0].Done);

```

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PROGRAM : ST	
Release : Xtarget	Ver :1.00
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48 (* [End of file] *)
49

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