

## 8) Probes

The DELTA DORE probe range covers all applications.  
These probes are interchangeable:

Self-adhesive projecting ambient temperature probe .....Cat. no.: 6300003  
Built-in projecting ambient temperature probe (Mosaic) .....Cat. no.: 6300004  
Ambient temperature probe for places of assembly.....Cat. no.: 6300017  
Ambient temperature probe for industrial premises .....Cat. no.: 6300019  
Outdoor probe .....Cat. no.: 6300001  
Ground/piping/blower probe .....Cat. no.: 6300002

## 9) Guarantee

This thermostat is guaranteed for 3 years from the date of purchase.  
This guarantee is applied under the conditions defined in articles 1641 and seq. of the civil code (France only).  
To benefit from the guarantee, you must return your faulty thermostat with the proof of purchase bearing the date of acquisition.  
The guarantee covers the replacement of faulty parts, labour and return carriage to the customer.

### **The following are excluded from the guarantee :**

- Thermostats on which the serial number has been damaged, altered or erased.
- Thermostats that have not been connected or used as indicated on the thermostat or in the instructions.
- Thermostats modified without prior agreement by the manufacturer.
- Thermostats damaged by impacts.



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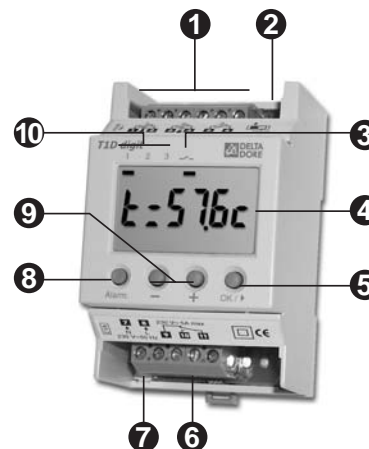
# T1D digit

Cat. no. 6150026

## Digital display differential electronic thermostat

The **T1D digit** is a differential electronic thermostat designed to control the transfer of a heat transfer fluid (e.g. hot water) from its collection source to its exchange or storage location.

### 1) Description

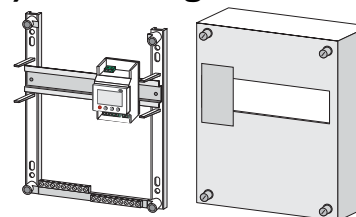


- 1 Probe inputs
- 2 Selector switch:  
User mode/Installer mode
- 3 Output state : Lit = On
- 4 Temperature display
- 5 Scroll button
- 6 Changeover relay output
- 7 Power supply
- 8 Fault indicator (flashing)
- 9 Modification buttons
- 10 Displayed temperature type indicator  
(On = Setpoint, Off = Measured temperature)

### 2) Technical characteristics

- Power supply 230 V  $\pm$  10%, 50 Hz
- Insulation class II
- Consumption: 2 VA
- 1 changeover contact output, 5 A, 230 V
- 1 "maximum" difference adjustable from +3.5 °C to +30 °C
- 1 "minimum" difference adjustable from +0.2 °C to +3 °C
- 1 safety setpoint adjustable from 0 (Off) to +90 °C
- 3 probe inputs: NTC type 1000  $\Omega$  at 25 °C
- Digital display (measured temperatures, output state)
- Modular case: 3 modules, h = 58 mm
- DIN rail mounting
- Protection index: IP 40

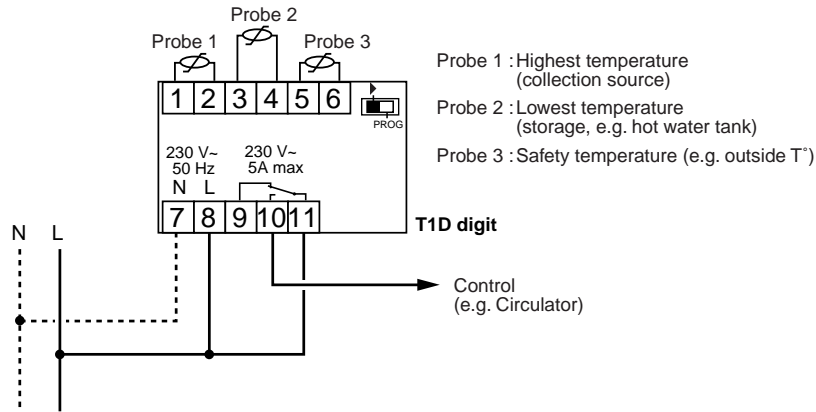
### 3) Mounting



**T1D digit** is mounted on a DIN rail in an electrical cabinet

## 4) Connection

For clarity, only schematic diagrams are given here. They do not show the protective devices and other accessories required by the standards.  
 - The UTE C15-100 standard and good practice must be complied with.  
 - Connected or adjacent appliances must not generate excessive interference (directive 89/336/EEC).




## 5) Installer commissioning



Place the switch in the **PROG** position.  
 Press the **+** or **-** buttons to display the required value.  
 Press **OK** to accept and go to the next parameter.

Function no.	Description	Setting	Default value
1	Maximum difference	From + 3.5 °C to + 30 °C in 0.5 °C steps	+ 7 °C
2	Minimum difference	From + 0.2 °C to + 3 °C in 0.1 °C steps	+ 2 °C
3	Safety setpoint	From 0 (Off) to + 90 °C in 1 °C steps	Off
4	Probe 1 correction	From - 2 °C to + 2 °C in 0.5 °C steps	0 °C
5	Probe 2 correction	From - 2 °C to + 2 °C in 0.5 °C steps	0 °C
6	Probe 3 correction	From - 2 °C to + 2 °C in 0.5 °C steps	0 °C

If the safety setpoint is "Off", setpoint 3 is not displayed.

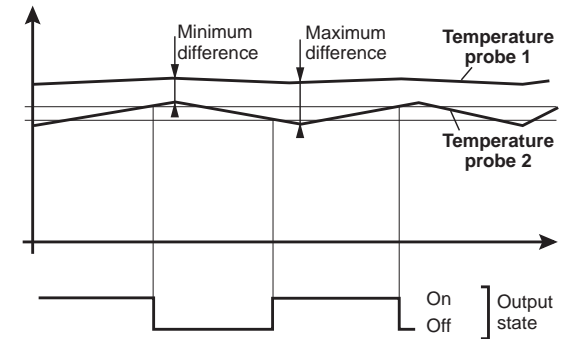
When all the settings have been defined, the switch **must be** returned to the  position.

## 6) Use

**T1D digit** continuously compares the temperature measured by probe 1 with the temperature measured by probe 2.

If  $T^{\circ} \text{ probe 1} - T^{\circ} \text{ probe 2} > \text{maximum difference}$  the output switches to On.

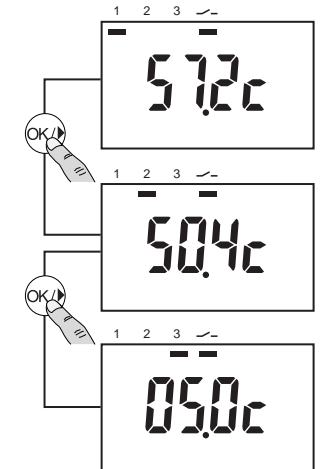
If  $T^{\circ} \text{ probe 1} - T^{\circ} \text{ probe 2} < \text{minimum difference}$  the output switches to Off.



The safety setpoint (e.g. 5 °C frost protection) is used to "force" the output to On in the case where the temperature measured by probe 3 falls below this setpoint.

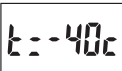
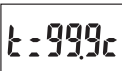
### User mode

**T1D digit** continuously displays the measured temperature. You can display all the measured temperatures by pressing the **OK** button repeatedly: probe 1, probe 2 or probe 3.



## 7) Alarm

The "Alarm" warning light flashes to indicate that a fault has occurred.

Problem	Diagnosis / Solution
When the measured temperature is consulted, the thermostat displays: 	<b>The probe is cut off</b> Check the probe or its connection.
When the measured temperature is consulted, the thermostat displays: 	<b>The probe is short-circuited</b> Check the probe or its connection.
The temperature display is correct, but the "Alarm" light is flashing.	<b>There is a problem inside the thermostat</b> Switch off, then switch on again. If the problem persists, contact the installer.