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Mod. DEDALO



## User Manual

### DAILY PROGRAMMABLE THERMOSTAT WITH DIP-SWITCH

Read all instructions carefully

- The DEDALO wall-mounted electronic programmable thermostat is an automatic control device for daily thermoregulation. It performs actions of type 1B and is suitable for environments with a pollution degree 2 and overvoltage category III (EN60730-1).

#### SAFETY INSTRUCTIONS

During installation and operation of the product, it is necessary to comply with the following instructions:

- The instrument must be installed by a skilled person, in strict compliance with the connection diagrams.
- Do not power on or connect the instrument if any part of it is damaged.
- After installation, inaccessibility to the connection terminals without appropriate tools must be granted.
- The instrument must be installed and activated in compliance with current electric systems standards.
- Before accessing the connection terminals, verify that the leads are not live.

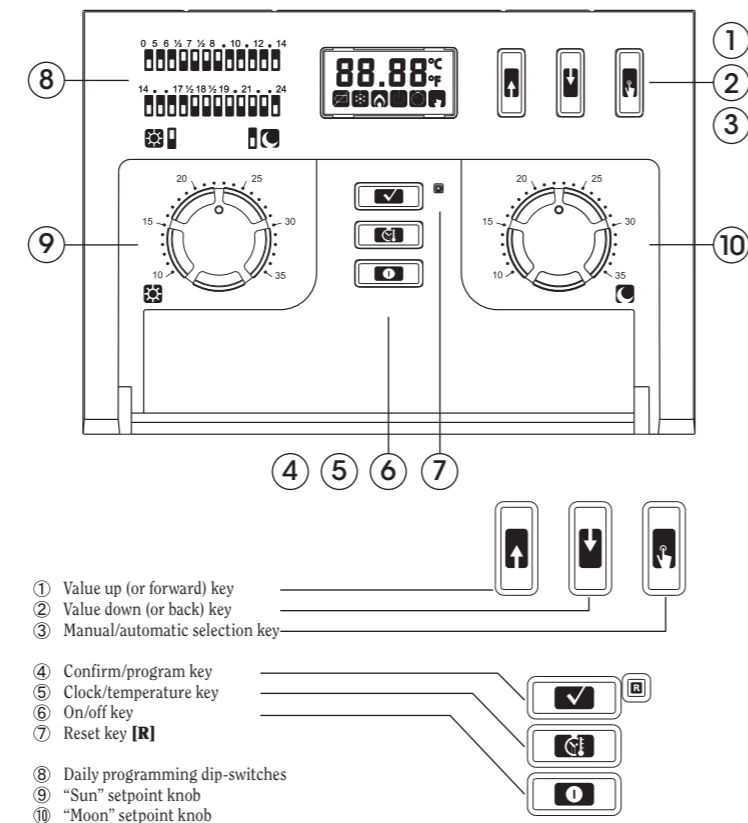
Code	Model	Description
VE014700	Dedalo	Wall-mounting daily programmable thermostat

#### TECHNICAL SPECIFICATIONS

- Power supply voltage: 2x1,5V (AA) alkaline batteries
- Battery autonomy: over two years
- Battery level control with "dead battery" indicator
- Bistable switchover relay output: maximum capacity from 5A to 250V AC under resistive charge
- "summer" and "winter" operation modes
- Temperature adjustment type: ON/OFF with differential to be adjusted from 0,1 to 1°C
- Resolution of temperature reading: 0,1°C
- Accuracy: ±0,5°C
- °C/°F display selection
- Temperature measurement updated every 60s
- Range of measured temperature: 0°C ÷ 40°C
- Temperature control range: 10°C ÷ 35°C
- Operating temperature: 0°C ÷ 50°C
- Storage temperature: -10°C ÷ 65°C
- Readings on LCD display
- Protection degree: IPXXD
- Range of timed operation: 0 ÷ 99 hours / 0 ÷ 99 days

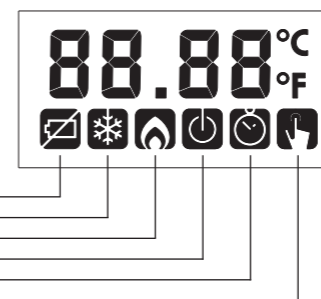
#### OPERATIONAL SPECIFICATIONS

#### CONTROLS



#### LCD DISPLAY

- Battery low symbol
- Cooling symbol
- Heating Symbol
- OFF symbol
- Timing symbol
- Manual symbol



#### SWITCH-ON RESET AND BATTERY REPLACEMENT

- When starting the device for the first time, place the batteries (see figure C) and reset the device using the ad hoc [R] key. After a few seconds the clock setup page will be displayed (see "Clock setup")
- When the batteries are about to be dead the symbol will flash: actuation is not guaranteed when the batteries are not replaced. As soon as the new batteries are in place, the programmable thermostat will resume operation with all the previous settings, current time included. If battery replacement took longer and the previous settings were not kept, press the reset key [R] and set the clock again.

**Warning: incorrect battery positioning may damage the device and run down the batteries.**

- To restore the default parameter values, press the reset key [R] while holding down the key until the display reads "dEF". Default parameters are:

Parameter	default
antifreeze temperature	6°C
winter manual setting	18°C
summer manual setting	22°C
hysteresis	0,3°C
operation	winter
measurement unit	°C

#### CLOCK SETUP

- To access the clock setup page hold down the key for at least 3 seconds, until the time field flashes: select the correct time (0 ÷ 23) using the and/or key and press to confirm. Repeat these steps to set the minutes (0 ÷ 59), and press to confirm and exit the programming mode: each time the clock is set up the seconds are zeroed.

#### OPERATION

- When in normal operation mode, the DEDALO thermostat periodically measures the temperature in the room in which it is installed and controls temperature, based on the previously set parameters. Temperature control is ON/OFF type, with a selectable differential.

#### Key 3: Automatic/Manual

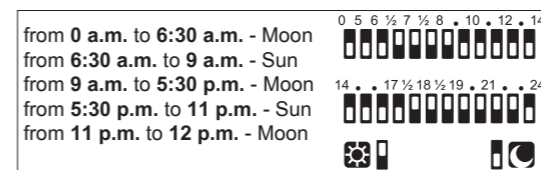
There are two operation options: automatic (different temperatures according to the time of the day) and manual (one temperature all through the day): to switch between these modes press the key. When in manual operation mode, the symbol is lit.

#### Key 5 Clock/Temperature

The display can read either ambient temperature or current time: to switch between these modes press the key.

#### Setpoint programming

When in automatic operation, climate control uses two temperature levels (sun and moon) depending on the position of the relevant dip-switches (8) (high and low).



Example of setting

The choice between these two temperatures during the day is made by means of 24 dip-switch, whereas the value associated to the 2 temperatures (sun and moon) are set by the use of adjustment knobs (9) and (10).

To view the temperature associated to the Sun setpoint (even during setup), press the key; to exit the reading press the key again or allow 20 seconds.

To adjust the Moon setpoint, proceed likewise using the key.

When in manual operation mode, climate control uses one temperature level only (with different winter and summer levels).

To view the temperature setpoint press either or . Press or to increase or decrease the setpoint value respectively. To exit or change the reading, press to confirm or allow 20 seconds.

**Note: while the control setpoint is being changed, temperature control and actuation are suspended.**

#### SWITCH OFF

To disable climate control press and ensure that the symbol lights up. If the device is in winter operation mode, the antifreeze function is guaranteed according to the relevant temperature setting (see "Advanced programming"). To switch the device back on, press again.

#### TIMED OPERATION

##### Timed manual operation

When in automatic operation it is possible to put climate control off for a certain programmed time span, after which the device will resume the previous operation mode. To enable timed switch off, hold down the key for at least 3 seconds, until the delay setting page appears; set up the delay as explained below (see "Timing programming"). When in timed switch-off mode, the symbols and are lit. To quickly terminate timed operation and return to the previous operation mode, press .

##### Timed switch-off

When in automatic operation it is possible to put climate control off for a certain programmed time span, after which the device will resume the previous operation mode. To enable timed switch off, hold down the key for at least 3 seconds, until the delay setting page appears; set up the delay as explained below (see "Timing programming"). When in timed switch-off mode, the symbols and are lit. To quickly terminate timed operation and return to the previous operation mode, press .

##### Timing programming

To set a delay in hours, hold down the key when in the delay programming page until the hour field (marked "h") flashes, then adjust the time using the and/or key and press to confirm. To set a delay in days, when the hour page appears move to the day page by pressing the key (the display will read "d" instead of "h") and proceed as explained for the hour delay. During timed operation it is possible to view and change the remaining delay: go to the relevant setup page (hold down the "hand" or "off" key for at least 3 seconds) and proceed as explained above.

#### ADVANCED PROGRAMMING

- To access advanced programming, hold the key down for at least three seconds. The display will show the first page, i.e. the measurement unit page. Use the and/or keys to scroll the various parameter setup pages. To change a parameter, go to the relevant parameter page and hold the key for at least three seconds (pressing for less than 3 seconds causes the device to return to the main page). Use the and/or keys to change the parameters and the key to confirm the selection.

##### Setting up the unit of measurement (°C/°F)

To select the unit of measurement for the temperature reading:  
- dEG °C: degrees Celsius (default)  
- dEG °F: degrees Fahrenheit

##### Setting up the control differentiale

Determines the temperature-control differential: selectable from 0,1° to 1,0° (default value 0,3 °C)

##### Setting up the summer/winter mode

Determines the relay actuation mode  
- E-1, where the symbol stands for winter (default)  
- E-1, where the symbol stands for summer

##### Antifreeze temperature

Determines the winter-mode antifreeze setpoint, which varies from 2,0° to 10,0 °C (default value 6,0 °C).

#### REFERENCE STANDARDS

Compliance with Community Directives  
2006/95/EC (low voltage)  
2004/108/EC (Electromagnetic compatibility)  
is declared with reference to the following harmonized standards:  
**EN 60730-2-7, EN 60730-2-9**  
**EN 61000-6-1, EN 61000-6-3**