

## FREETIME Programmable Thermostat

Magictime weekly/daily digital programmable thermostat (chronostat) for heating or cooling systems.

Daily or weekly programming with 4 time cycles and 2 temperatures per day using LCD display and push buttons.

### Features

- Battery powered with 2 x 1.5V AA batteries
- Day and night setpoints
- Holidays mode
- Control range 10..30°C (comfort)
- On/off or time-proportional operation
- Low temperature protection function
- Internal NTC sensor, facility for remote sensor
- SPST output relay 5(1)A 230Vac



Model Type	Model	Description
	<b>TCP-DIP-BI</b>	Freetime Electronic Digital Programmable Thermostat (Chronostat)
<b>Technical Data</b>	Power Supply	2 x 1.5V= AA (Alkaline)
	Battery Lifetime	About 2 Years
	Relay Contact Rating	5(1)A @ 250Vac
	Temperature Sampling	Approx. 3 minutes
	Available Setpoints	2 (Comfort - Economy)
	Working Range	10..30°C
	Anti-Frost Setpoint	6°C Fixed
	Internal Sensor	NTC (100kOhm @ 25°C)
Dimensions	W131 x H86 x D31 mm	

**First Operation** At first operation follow these steps:

	<ol style="list-style-type: none"> <li>1. Insert batteries as indicated and reset the thermostat.</li> <li>2. Adjust the current time and select the Heating or Cooling mode.</li> </ol>
<b>Time adjustment</b>	<p>In order to adjust the chronostat clock, follow these steps:</p> <ol style="list-style-type: none"> <li>1. Open the plastic door covering the batteries (Fig. 1).</li> <li>2. Press the ☺ button for at least 2 seconds.</li> <li>3. Adjust current hour through Up and Down buttons.</li> <li>4. Confirm with '☺'.</li> <li>5. Adjust current minutes through ěí and ěí buttons.</li> <li>6. Confirm with '☺'.</li> </ol>
<b>Manual mode</b>	<p>By pressing button (1) the thermostat goes into the manual mode. This means that the regulation doesn't alternate between the Comfort and the Economy temperatures, but according to the only temperature set through Fig. 6 knob instead, with a unique value over 24 hours. In order to return to the program mode, press once again the button (1).</p>
<b>Time / Temperature display</b>	<p>By pressing button (3) are alternatively displayed either current time or the current room temperature.</p>
<b>Turn off - Antifreeze function</b>	<p>In order to turn the thermostat off, press button (2). The display will show an 'OFF' label. If the thermostat is in heating mode, an antifreeze function is activated, which will adjust temperature at 6°C.</p>
<b>Heating / Cooling selection</b>	<p>This selection allows the thermostat to reverse the relay operation mode so that both a heater and a cooler can be correctly wired.</p> <p>In order to select the Winter (Heating) mode:</p> <ol style="list-style-type: none"> <li>1. Press the DOWN button for at least 2 seconds.</li> <li>2. The display will show a flashing ěFlameí symbol.</li> </ol> <p>In order to select the Summer (Cooling) mode:</p> <ol style="list-style-type: none"> <li>1. Press the UP button for at least 2 seconds.</li> <li>2. The display will show a flashing ěFaní symbol.</li> </ol>
<b>Battery Replacement</b>	<p>When on the display appears the 'BATT' message, batteries must be replaced. In order to perform this operation proceed as follows:</p> <ol style="list-style-type: none"> <li>1. Open the plastic door covering the batteries (Fig. 1).</li> <li>2. Remove old batteries with the help of a small tool.</li> <li>3. Insert the new batteries which must be 1.5V, AA alkaline type.</li> <li>4. Perform, if necessary, a reset through button (7).</li> </ol>
<b>Program mode</b>	<p>The chronostat features 24 switches for selecting, during the whole day, either the ěComfortí or the ěEconomyí temperature.</p> <p>In order to set the program follow this simple rule:</p> <ol style="list-style-type: none"> <li>1. Switch set to top -- Comfort temperature</li> <li>2. Switch set to bottom -- Economy temperature</li> </ol> <p>Each of the switches refers to the time interval starting at the hour printed on the left and ending at the hour printed on the right of the switch itself. Taking the pictures as a reference, in the following examples are respectively activated:</p> <ul style="list-style-type: none"> <li>• Fig. 9: From 00:00 to 05:00 Comfort temperature</li> <li>• Fig. 10: From 06:00 to 06:30 Comfort temperature</li> <li>• Fig. 11: From 09:00 to 10:00 Economy temperature</li> <li>• Fig. 12: From 20:00 to 21:00 Comfort temperature</li> </ul> <p>Please notice that the interval starting 00 until 05 is activated with one single switch, meanwhile from 05 to 09 in the morning the resolution for each switch is 1/2 hour. In the rest of the day the interval length is one hour.</p> <p>The Comfort temperature is set through the knob in Fig. 6 (Sun), meanwhile the Economy one is set through knob in Fig. 5 (Moon). In order to have a night reduction, the Fig. 5 knob will be usually set to a lower temperature value with respect to the Fig. 6 knob.</p>
<b>Installation</b>	<p>The chronostat can be installed in both the following ways:</p>

1. Directly to the wall with the 3.5X25 screws and wall plugs.

2. Through the adapting plate of Fig. 2.

In both cases **it is mandatory** to fix the plastic cover of the thermostat to the relevant base via the two 3.5x25 or 3.5X6 screws mounted through

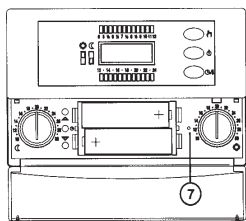


Fig. 1



Fig. 5



Fig. 6

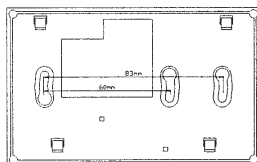


Fig. 2



Fig. 7

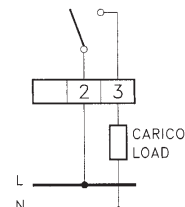


Fig. 8

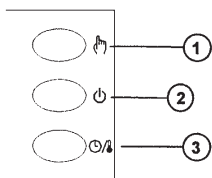


Fig. 3



Fig. 9

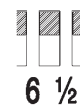


Fig. 10

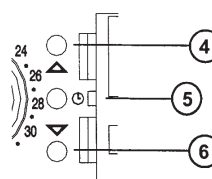


Fig. 4



Fig. 11

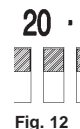


Fig. 12

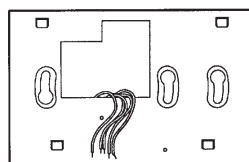


Fig. 13

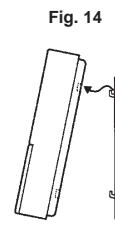


Fig. 14

