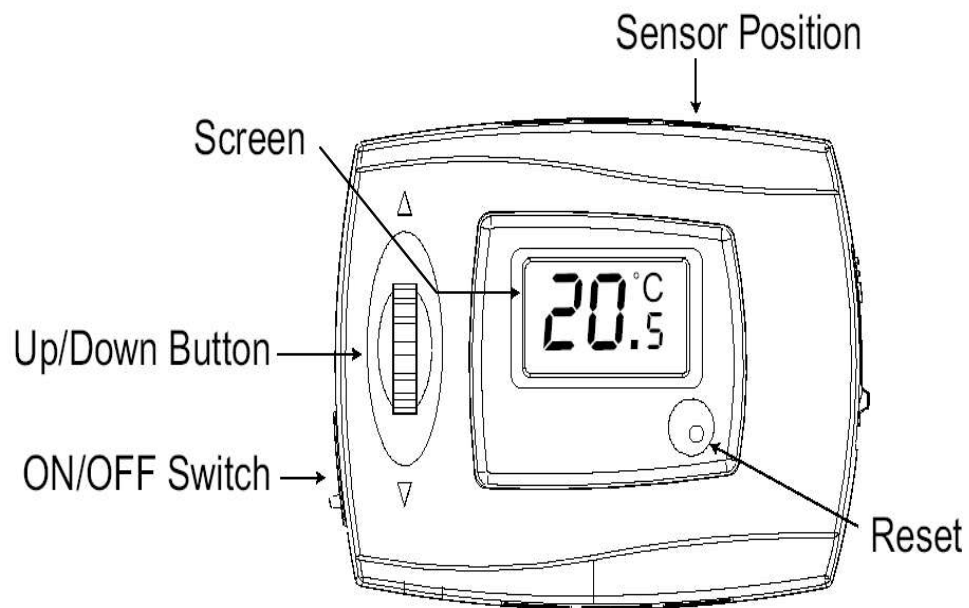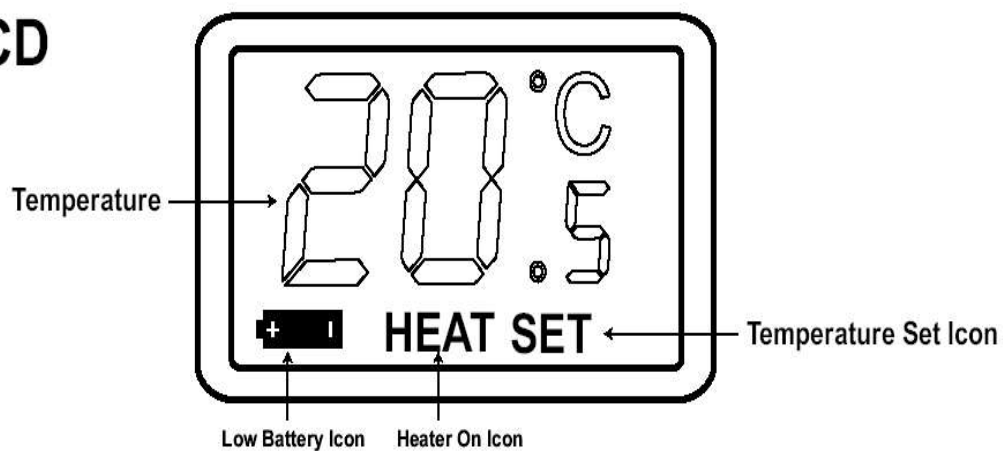# USER'S MANUAL
AURATON 1300

I INTRODUCTION

This thermostat is designed to be used with electric, gas or oil heating system.
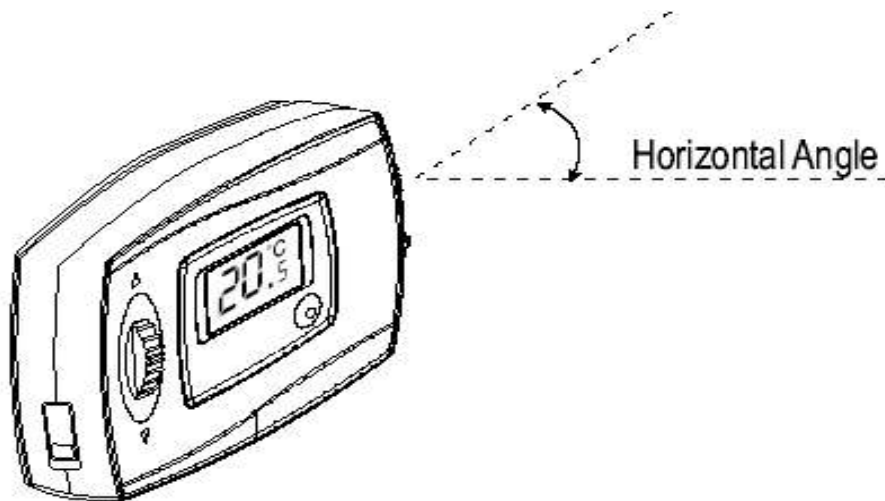
Appearance

LCD

Features

Several useful functions and operating modes have been incorporated to adapt a variety of customer needs.
• Room Temperature Display
• Heater Operation Mode
• Low Battery Indicator
• On/Off Switch

II INSTALLATION

Select a suitable location for the thermostat.

The location of the thermostat can greatly affect its performance. If it is lacated at where circulate air cannot reach, or exposed to direct sun light, it will not adjust the room temperature properly. To ensure proper operation, the thermostat should be installed at an inside wall with freely circulating air. Find a place where your family usually occupied.
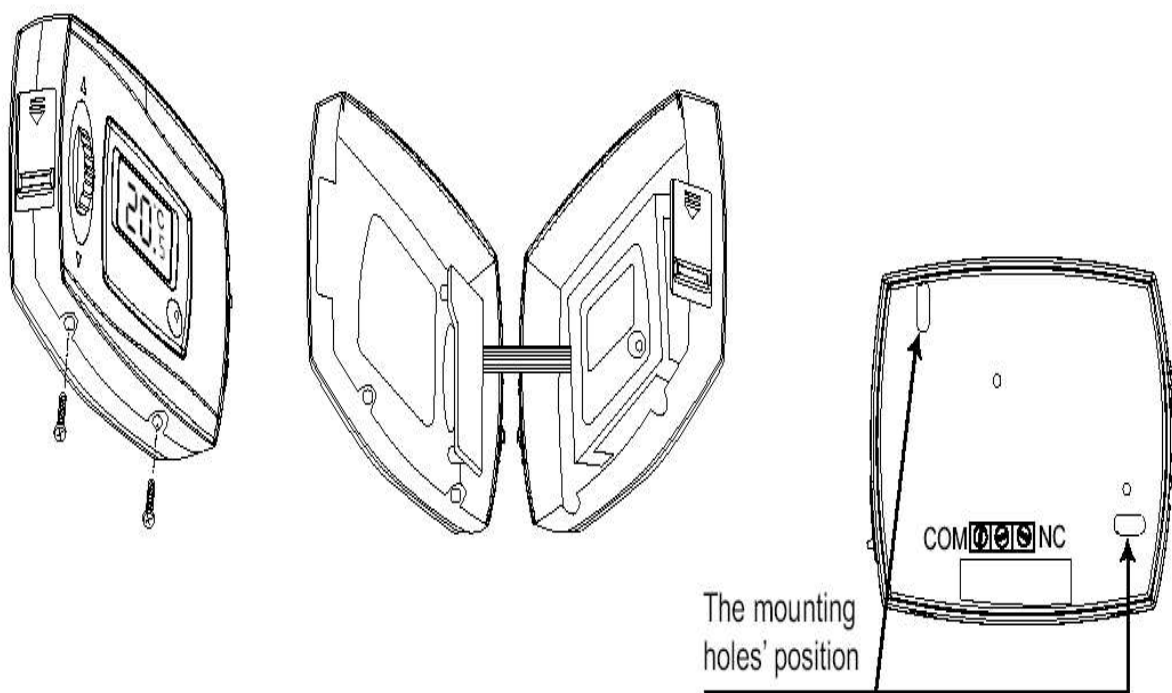

Avoid close to some heat generating appliance (e.g. TV, heater, refrigerator) or exposed to direct sun light. Do not install near a door where the thermostat will suffer from vibration. For optimal operation choose a mounting location:
• About 1.5 meter above the floor in an area with good air circulation.
• Away from drafts of dead air sports, air ducts, radiant heat from the sun or appliances, concealed pipes and chimneys.
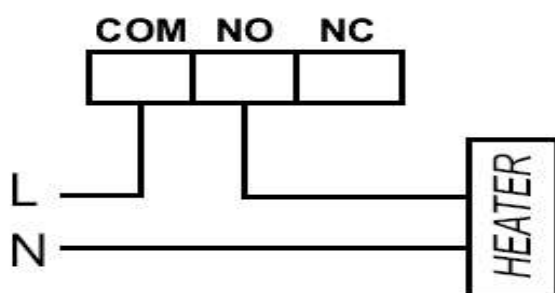
Mounting

• Mounting the thermostat onto the wall.
• Remove completely the front housing of the thermostat by loosening the screws at the bottom. (see picture)

The mounting holes' position

- Mark the holes' position and align the wire coming from the wall in the hole beside the connectors.(see picture)
- Drill two holes and insert the plastic anchors carefully into the holes until they are flush with the wall.
- Fasten securely the thermostat to the wall with the two screws.

Connecting the Wires

The AURATON 1300 thermostat can be used with single stage heating system. Inside the thermostat, three terminals which label COM(common), NC(normal close) and NO(normal open) would be found. In most case, COM and NO are used.
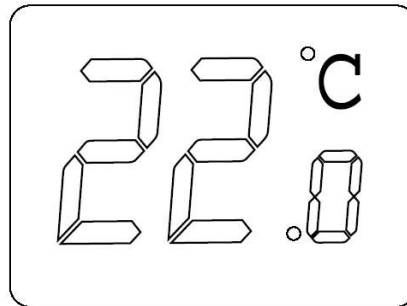

Temperature Span

Span is the temperature difference between the turn ON and OFF temperature. The factory pre-set span is ±0.5°C. For example, control temperature setting is 20°C. The heater will be operated when the room temperature drops to 19.5°C and will be turned off when the temperature rises to 20.5°C.

Temperature Measurement

'HI' will be shown when temperature is above 40°C and 'LO' will be shown when temperature falls below 0°C.

Power Installation

The thermostat is operated by two AAA 1.5V Alkaline batteries. To power-up the unit, install the batteries and slide the ON/OFF switch to ON position. When power is supplied for the first time or reset button is pressed, the display will show as follows:
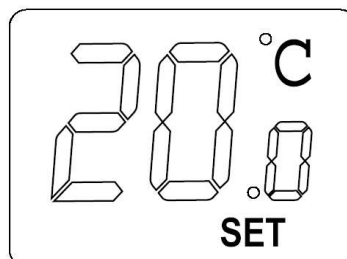

If the display is different as shown, use a fine probe such as straightened paper clip to gently push the reset button.

TEMPERATURE	22°C
CONTROL TEMPERATURE	20°C
OUTPUT	OFF

III CONTROL TEMPERATURE

At the normal operation mode, the temperature could be set.
- Push ▲/▼ button to view the setting temperaturewhich was set last time.
- When power up or reset, the factory preset control temperature 20°C is shown.
- Hold ▲/▼ button about 3 seconds and the temperature indicator will flash one time.

- Push ▲/▼ button to increase or decrease thetemperature setting.
- Hold ▲/▼ button to fast advances the adjustment rate.
- The unit will be back to normal operation mode automatically when no button is pressed about 10 seconds.
- Program temperature can only be set in the control temperature range from 5°C to 35°C, not

wrap around at two ends.

- When pushing the ▲ button to increase the temperature to 35°C, it is no further increment. Likewise, when pushing ▼ button to decrease the temperature to 5°C, it is no further decrement.
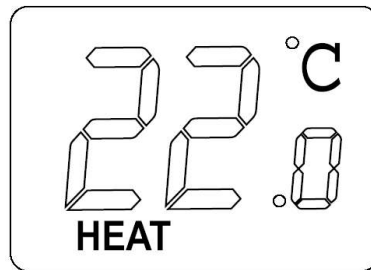
IV LOW BATTERY OPERATION

When the voltage of the battery decrease to certain level, the LCD will be blank. In this case, the batteries should be changed as soon as possible to avoid any data loss.

V HEATER OPERATION

Heater On Operation

The heater will be turned on when the room temperature is lower than the programmed temperature and the Heater On Icon will be displayed as shown.

Output-On Delay

For safety purposes, the thermostat has an auto 20 seconds' delay for heater to restart.

VI SPECIFICATIONS

Physical Characteristics

Size	98(W)X 28(L)X 73(H) mm
Material	Polycarbonate (PC)
Weight	98g (battery not included)

Electrical Characteristics

Power Source	AAA 1.5V Alkaline battery x 2
Switching Relay:	
Resistive load	5A at 250VAC
Inductive load	3A at 250VAC
Temperature Measuremen	0 - 40°C
Temperature Accuracy	±1.0°C
Temperature Control	5 - 35°C
Temperature Control Span	±0.5°C
Output On Delay	20 seconds
Operating Temperature	-10°C to 50°C (non-condensing)
Storage Temperature	-30°C to 60°C
Operating polluted condition	Normal