

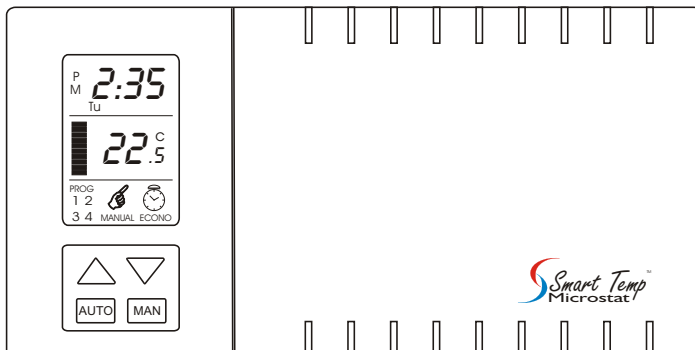
Microstat

Operating Instructions

Congratulations on the purchase of your new Electronic Thermostat!

Your new Smart Temp Microstat thermostat has been built using the best components and design philosophy. As a consequence of this, if properly installed your new electronic programmable thermostat will provide you with many years of trouble free and reliable service.

The Smart Temp Microstat has been designed to be attractive, highly reliable and simple to use. Please take the time to read these instruction to familiarise yourself with the function and features offered in this product.



Installation

Note: To be installed by qualified personnel only

Choosing a location for the Microstat.

Choose a mounting location about 1.5 metre above the floor in an area with good air circulation and away from:

1. Drafts and dead air spots.
2. Radiant heat from the sun or appliances.
3. Concealed pipes and chimneys.

Mounting the thermostat unit onto the wall:

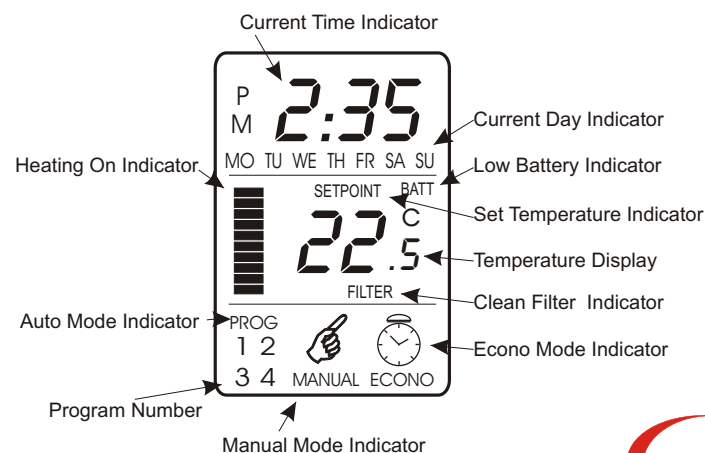
1. Remove the slide door of the thermostat completely.
2. Mark the holes position.
3. Drill two holes and insert the plastic anchors carefully into the holes.
4. Fasten the thermostat to the wall with the two (2) screws included
5. Install two "AA" size **Alkaline** batteries into the battery compartment.

Power-up.

Your Microstat uses two "AA" size **Alkaline** batteries to operate. When the display shows "BATT", you should replace the two batteries.

When power is first applied, the display will show the time and day (MO 12:00) as well as the ambient temperature.

Note: For trouble free performance use **Alkaline** batteries only with the Microstat



Operating Modes

The thermostat has three separate operating modes being : AUTOMatic, MANual and TIMER ECONO.

NOTE: Only one mode can be active at a time.

AUTO

The Automatic mode maintains the room temperature according to the user programs. Press the AUTO button. The "PROG" icon and the running program will be displayed. Momentarily pressing the up or down button displays the temperature set point of the running program.

MAN

The Manual mode allows the user to bypass the programming and operate the thermostat as a simple non programmable thermostat. Pressing the MAN button displays a hand symbol indicating Manual mode is active. The set temperature can be adjusted by pressing the Temperature Up or Temperature Down button in 0.5 C increments.

TIMER ECONO

When going on vacation or leaving the home for extended periods (up to 7 days) the Microstat provides a useful TIMER ECONO function. This function provides a means to hold the homes temperature to a temporary fixed temperature for up to 7 days. At the end of the TIMER ECONO mode the Microstat will automatically return to Auto mode as described above.

This operating mode allows the user to temporarily override the program to maintain a lower heating temperature (during vacations etc) thereby providing savings in energy costs.

To activate the Timer Econo mode :

- 1 Press and hold MAN button for three (3) seconds.
- 2 The clock symbol, the return time and the ECONO temperature set point will be displayed.
- 3 Press DAY, HOUR and MIN keys to specify the return time.

Switches & Buttons

Function switch

This switch selects the functions HEAT, OFF and 5 C.

HEAT

Select this position to control the heating system, In AUTO mode the thermostat refers to the user programmed data to control the temperature. In Manual Mode the current set temperature will be maintained indefinitely.

OFF

This Position switches off the heating system.

5 C

This function ensures the home temperature does not fall below 5C. This prevents the home from freezing.

Filter button

The thermostat keeps a record of the number of hours your heating system has been running. This value is then displayed so that you may clean the filter if installed.

The Microstat will display the total number of hours the system has been ON and after 250 hours of system operation, the FILTER indicator will begin flashing to remind you to change or clean the filter.

The filter counter will count up to a maximum of 999 hours and stays there until reset.

To reset the counter, press and hold the FILTER key until the display shows 000.

Programming

NOTE: The Microstat will automatically resume normal operation after 10 seconds of the last key press during programming. It is therefore important that during programming mode you do not wait for longer than 10 seconds between steps or the Microstat will exit programming mode requiring you to start the programming process from the beginning.

NOTE: Pressing the RETURN key will exit programming mode immediately.

Time and Day adjustment

In the normal mode, press DAY HOUR and MIN keys to set the day and time of day. Each press of the respective button will advance the value by 1hour, 1 minute or 1 day.

Default programs

The Microstat has four (4) pre-programmed heating programs for weekdays and two (2) for weekends. You can modify these programmes to suit your requirements.

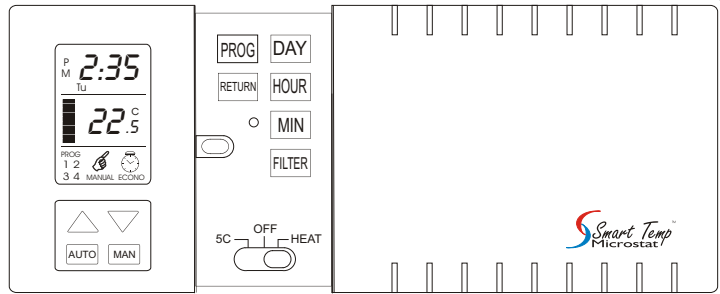
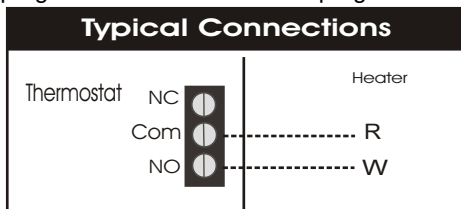
Programming Method

Place the function switch to the HEAT position.

Press the PROG key. The display shows the program's starting time and temperature set point. The Monday to Friday indicator will turn on indicating that this program is associated to the days of the week.

The program number 1 will flash indicating the selected program. Adjust the program time by pressing the HOUR and MIN buttons, and the required temperature for that time by pressing the Temperature UP or Temperature Down button.

Pressing the PROG key again will allow you to scroll through the weekday programs 1 ~ 4 and weekend programs 1 ~ 2.



To Modify and Existing Program

Select the program to be modified by using the PROG key to step through to the required program (SA SU 1 for example). Press the HOUR and MIN keys to modify the program's starting time and the temperature up or temperature down buttons to set the desired temperature required at that time. Press the RETURN key or wait 10 seconds for the automatic resume function.

Hint: To program the system to be off, while at work for example, programme the heating temperature to 5 deg C.

Temperature span adjustment

The factory set temperature span is 1C. For example, if the temperature set point is 20C, the heating system will turn on at 19.5C and turn off at 20.5C.

This span value is adjustable. You can choose between 0.5, 1.0, 1.5 and 2.0C.

To review or to change the temperature span

1. Press PROG key while the RETURN key is pressed.
2. Release both keys.
3. Press the up or down buttons to select the new temperature span.
4. Press the RETURN key or wait 10 seconds for the automatic return.

Note : Choosing a small temperature span such as 0.5C will be more comfortable (less temperature variation in the home) however the heating system will turn on and off more often.

Default Program

Program Number	Time	Temp
Monday to Friday 1	6:00 am	21C
Monday to Friday 2	8:30 am	21C
Monday to Friday 3	4:00 pm	21C
Monday to Friday 4	11:00 pm	17C
Saturday & Sunday 1	6:00 am	21C
Saturday & Sunday 2	11:00 pm	17C

Record your desired program here

Program Number	Time	Temp
Monday to Friday 1		
Monday to Friday 2		
Monday to Friday 3		
Monday to Friday 4		
Saturday & Sunday 1		
Saturday & Sunday 2		

Specifications

- Relay output, suitable for millivolt systems.
- Contact rating up to 240VAC @ 8 Amps
- 7 Day vacation Timer.
- Filter Monitor.
- Adjustable Span (Dead Band) settings
- Low battery indicator.
- Powered by 2AA Alkaline batteries. (1 Year)
- 1 Year Warranty (RTB)



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