

# BENSON HEATING

## BENSON CP2

### DIGITAL REMOTE CONTROL PANEL USERS HANDBOOK

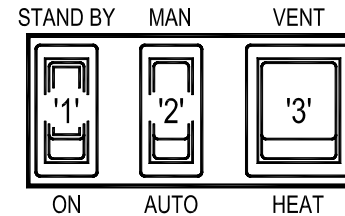
*(Models On/Off & High/Low)*

The CP2 is a purpose built remote control panel incorporating a digital control clock & internal room & frost temperature thermostat (plus optional high/low stat if required). Three externally mounted switches manually control the unit. Each switch has two positions: these positions being identified using the convention of bottom of the rocker pushed in as 'ON' and the top of the rocker pushed in as 'OFF'.

#### FUNCTION OF SWITCH POSITION

Figure 1 – Control Switches

Business Name  
 Primary Business Address  
 Your Address Line 2  
 Your Address Line 3  
 Your Address Line 4



#### Switch One – 'STANDBY / ON'

This switch does NOT control the power supply to the panel. The panel is live and the time switch will run whichever position this switch is placed in. When this switch is in the 'STANDBY' position the burner will not operate. Use this switch to temporarily stop the burner without changing the time switch.

#### Switch Two – 'AUTO/MAN'

When this switch is in the 'AUTO' position the time switch will control the burner operation of the heater. When this switch is in the 'MAN' position this will manually override the time switch operation.

#### Switch Three – 'VENT/HEAT'

When this switch is in the 'VENT' position the main blower fan will run and will inhibit burner operation. When this switch is in the 'HEAT' position the burner will run, subject to the positions of the other two switches and the internal control thermostat.

#### THERMOSTAT SETTINGS

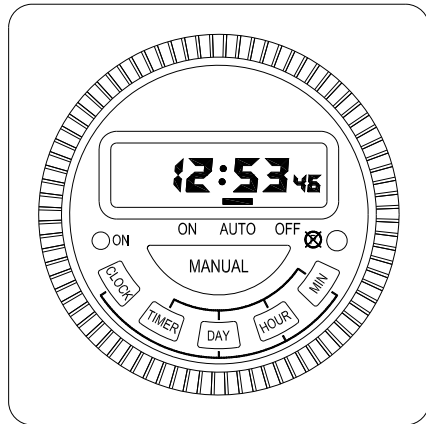
The internal thermostats will require setting. Usually the frost thermostat is set at a nominal 5°C, this can be changed at the discretion of the installer/user for prevailing site conditions.

## DIGITAL TIME CLOCK PROGRAMMING INSTRUCTIONS

### Preparing for Operation

1. Press the reset button, using a pencil or similar instrument. This clears the memory of unwanted information in readiness for programming.
2. Recharge the battery when no indicate appear in the display.

Figure 2. - Digital Time Switch



### Button Instructions:

**CLOCK** (or ⌚): Current time setting or show current time.

**TIMER** (or ⌚): Press this button to enter program mode. There are 6 on/6 off programs.

**DAY** (or 1...7): The day of the week setting button.

**HOUR** (or h+): Hour setting button.

**MIN** (or m+): Minute setting button.

**MANUAL**(or I AUTO O): ON/AUTO/OFF select mode.

**⊗** : RESET button to cancel all prior settings.

**HOUR** : LED lamp indicator. LED lights when the device turns on.

### To set current time and day:

1. Press CLOCK and DAY buttons until current day shows. Release both buttons for current day (today) setting.
2. Press CLOCK and HOUR buttons until current hour shows. Release both buttons for current hour (now) setting.
3. Press CLOCK and MIN buttons until current minute shows. Release both buttons for current minute (now) setting.
4. After setting the weekday and time, the seconds will reset automatically.

### To set programs:

1. Press the 'TIMER' button "ION" will appear at the left side of the display. This is the 1<sup>st</sup> program that you desire the heater to turn on.
2. Press the 'DAY' button to select the program period. There are 10 settings for choice. (1) Mo. to Su. (2) Mo. (3) Tu. (4) We. (5) Th. (6) Fr. (7) Sa. (8) Su (9) Mo.+ Tu. + We. + Th. +Fr. (10) Sa. +Su.
3. Press the 'HOUR' button to set the correct hour.
4. Press the 'MIN' button to set the correct minutes.
5. After setting the "ION" program, press 'TIMER' button again "IOFF" will appear. This is the 1<sup>st</sup> program that you desire the heater to turn off.
6. Repeat the same procedure (as sections 2 to 5) until "IOFF" program is set.
7. Your timer gives you up to 6 difference on and 6 difference off per program period. You can use all 6 settings per period, or as few as you like.

### Review your programs:

1. Press the 'TIMER' button to advance displayed to each subsequent on or off settings.
2. Check days and times displayed.
3. To make a change follows instruction's under "To set programs"

### MANUAL button:

1. Press the 'MANUAL' button to select ON/AUTO/OFF mode.
2. ON mode is to turn on the heater. OFF mode is to turn off the heater.
3. AUTO mode is to set the heater to enter the programs. It will turn on or turn off according to the programs for which you set.
4. OVERRIDE FEATURE:  
Turn To turn the heat on if already off or off if already on, the timer automatically resumes the program on the next cycle.  
(From ON to AUTO mode, it will turn on until the next OFF program.)  
(From OFF to AUTO mode, it will turn off until the next OFF program.)