SPACE-RAY®

E1376B2

Thank you for choosing Space-Ray

SCB60B-E1111

UK   Programmable chrono-thermostat, suitable to operate 1 / 2 / 3 / 4 heating zones, made of radiants or warm air units with or without air recirculation.

USER GUIDE for using SCB60B-E1111
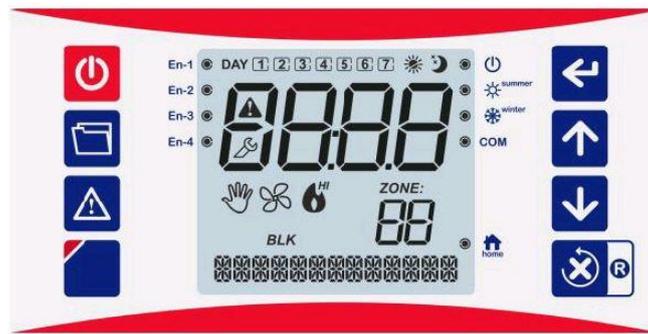
KEYBOARD

⏻	**ON / OFF**: to switch ON the controller or to put it in stand by mode. (ONLY IF *Hb=YES*)
📁	**MENU**: push briefly for menus: tiME / SEt / inFo / PAr / Fnc.
⚠	**ALARM**: push for alarm menu / to silence the alarm buzzer if ON. You can only access the ALARM MENU during an alarm condition
◣	**DISPLAY LCD**: display parameter list: language, backlight, buzzer, speed text
↵	**ENTER**: During setup it works like "ENTER" button. • To enter the displayed menu/parameters; • To confirm/start the displayed functions. During the normal activity, press it briefly to see the thermometric scale
↑	**UP**: During setup to scroll the menu and parameter lists, to increase displayed values. During the normal activity, it scrolls the available heating zones.
↓	**DOWN**: During setup to scroll the menu and parameter lists, to decrease displayed values. During the normal activity, it scrolls the available heating zones.
⊗ ®	**ESC / RST**: During setup it works like "Esc" button. During the normal activity hold it to reset lockout burners of the displayed zone.

DISPLAY:

⚠	**ALARM**: alarm in progress.
ZONE: _ _	**Zone**: it is the heating zone to which data on display are referred (i.e.: 02=zone 2)
DAY ①②③④⑤⑥⑦	**Day of the week**: (① = Monday,.. , ⑦ = Sunday).
🖐	**Manual / automatic mode**: 🖐ON: the displayed zone is in manual ON or OFF mode by parameter *A-M*; 🖐 blinking: the displayed zone is in manual mode by key selector or BMS; 🖐 OFF: the displayed zone is in automatic mode;
BLK	**Burner lockout**: **BLK** ON: the controller detects a flame failure in the zone
En-1	**Burner 1: Enable / Disable** En-1 ◉: burner 1 enabled
En-2	**Burner 2: Enable / Disable** En-2 ◉: burner 2 enabled
En-3	**Burner 3: Enable / Disable** En-3 ◉: burner 3 enabled
En-4	**Burner 4: Enable / Disable** En-4 ◉: burner 4 enabled
✺	**Common exhaust fan output**: ✺ ON: output of common exhaust fan ON

☐ MENU

Press the menu ☐ followed by the ↑ key to scroll through the menu SET, TIME, PAR,

FN and INFO. The menu is in the following order:

1. SET, this is to set the Temperature Sensors.
2. TIME, used to set the Time, Date Month, Year, Weekday.
3. PAR, is to access all the parameters from Fan set up, Zone Qtys, Burner Qtys and more.
4. FN is to Enable the Zones, Automatically, Manually or via Time settings as well as Enable the Burners.
5. INFO shows the outside Temperature Sensors and any meters running.

You can access the above by pressing the following steps then Press the Enter key to access the option required.

1. SET, Used to set the desired temperature for each Sensor probe.

Press ☐ (SET will be displayed), then Press ← This will then display SP1 (Sensor Probe

1) to change to a desired Sensor Probe Press ↓ until you find the required Sensor Probe,

SP1, SP2, SP3 or SP4. This will depend on how many probes you have connected and

determined by the H5 setting in Parameters. Once you have the desired Sensor Probe Press

← then use the ↑ or ↓ to change the temperature to the required setting. Press ←

again to set the Temperatures then repeat for SP2, SP3 and SP4 if connected. Once all

Probes are set Press ⊗® this will return you to the main menu.

See section 13 in the manual for more.

2. TIME Used to set the time, date, year, month.

Press ⬜ (SET will be displayed) then, ⬆ then, ↵ this will display the current set time. Press ↵ then use the

⬆ or ⬇ to change the Hour. Press ↵ then use the

⬆ or ⬇ to change the Minutes. . Press ↵ then use the

⬆ or ⬇ to change the Day (1 to 7. 1 being Monday). Press ↵ then use the

⬆ or ⬇ to change the Year. Press ↵ then use the

⬆ or ⬇ to change the Month. Press ↵ then use the

⬆ or ⬇ to change the Day of the month. Press ↵ to complete the process or ↵ to scroll through again.

Once all settings are complete Press ⊗® this will return you to the main menu.

See section 15 in the manual for more.

3.TIMER PROGRAMS

To set a timer program for a burner to come on or off first press ⬜ (SET will be displayed) then, ⬆ then, ⬆ then, ⬆ Fnc will be displayed then press ↵. AN-1 will be displayed press ↵ if Auto is not displayed then press ⬆ or ⬇ until it is. Once Auto is showing press ↵. This will show --:--. Press ↵ followed by the ⬆ or ⬇ keys to set the hour. Once correct press ↵ then use the ⬆ or ⬇ keys to set the minutes. Once the minutes are set press the ↵ again this will show all the days flashing (1 to 7) using the ⬆ or ⬇ keys you can set each individual day (1 to 7), weekend (6 & 7)or Mon to Fri (1 to 5). Press ↵, using the ⬆ or ⬇ keys you can then set the burners to ON or OFF. Press ↵ again. you can now press the ⬆ to start the process again or press ⊗®.

Once you have set all your ONs and OFFs you can review all the programs you have set by

Pressing (SET will be displayed) then, then, then, Fnc will be displayed

then press . AN-1 will be displayed, press and AUTO will be displayed. Press .

Then using the key you can scroll through all the timer settings that have been set up

and add more if required.

See section 11.2 on page 5 of the manual for more information.

4.PAR Used to access all the parameters from Fan set up, Zone Qtys, Burner Qtys

Press (SET will be displayed) then, then, this will display PAR. Press this

will then display PA. Press Again. This is where you now enter the Password for the unit
to change the

Parameters, this can be locked by the customer with there own password. Use Installer

Password 95 or Factory Password 59. Please see page 7 of the manual under section 17.

Press the to enter the passcode required then Press . You can then use the

 or to scroll through all the parameters found in section 17 on page 6 of the manual

and section 4.2 on page 2 to find the desired H5 parameter.

5.KEYPAD Lock

To lock the keypad go into the PAR (section 4 above) and scroll through until you find the

HL, set this to YES. Once you have done this press and hold until RST shows, press

 then until 01 shows then press . This will reset the whole panel and activate
the LOC.

When the keypad is locked, the message LOC will be displayed anytime a key is pressed.

To temporarily unlock the keypad hold or for at least 3 secs until the message UnL

is displayed. The Keypad re-locks automatically after 15secs of inactivity.

ALARM SIGNALS

When an alarm is displayed Press ⚠ followed by the ↑ or ↓ to scroll through the below signals

ALARM SIGNALS

Display	LED	Description
A 10	⚠	Eeprom fault, switch the thermostat off and on again
A 13	⚠	Clock error. Check date and time.
A 60	⚠	Burner lockout, warning light 1.
A 61	⚠	Burner lockout, warning light 2.
A 62	⚠	Burner lockout, warning light 3.
A 63	⚠	Burner lockout, warning light 4.
A 20	⚠	Probe P1 in short-circuit or not connected or temperature beyond limits. In case of faulty P1, all outputs related to zone 1 are OFF.
A 21	⚠	(IF AVAIL.) Probe P2 in short-circuit or not connected or temperature beyond limits. In case of faulty P2, all outputs related to zone 2 are OFF.
A 22	⚠	(IF AVAIL.) Probe P3 in short-circuit or not connected or temperature beyond limits. In case of faulty P3, all outputs related to zone 3 are OFF.
A 23	⚠	(IF AVAIL.) Probe P4 in short-circuit or not connected or temperature beyond limits. In case of faulty P4, all outputs related to zone 4 are OFF.
A 30	⚠	(IF AVAIL.) Outside probe in short-circuit or not connected or temperature beyond instrument limits. Check the cable to the probe. The alarm stops when the temperature goes back to normal values.
A 40	⚠	Temperature alarm.
A 64	⚠	ZONE 1: High temperature alarm.
A 65	⚠	ZONE 1: Low temperature alarm.
A 66	⚠	ZONE 2: High temperature alarm.
A 67	⚠	ZONE 2: Low temperature alarm.
A 68	⚠	ZONE 3: High temperature alarm.
A 69	⚠	ZONE 3: Low temperature alarm.
A 70	⚠	ZONE 4: High temperature alarm.
A 71	⚠	ZONE 4: Low temperature alarm.

To mute the buzzer (if *Ab*= 1), press any key; the alarm condition keeps showing on display until removal of the alarm cause.

These are the only basic functions, for all other parameters and settings it is advised that you ready the manual fully.