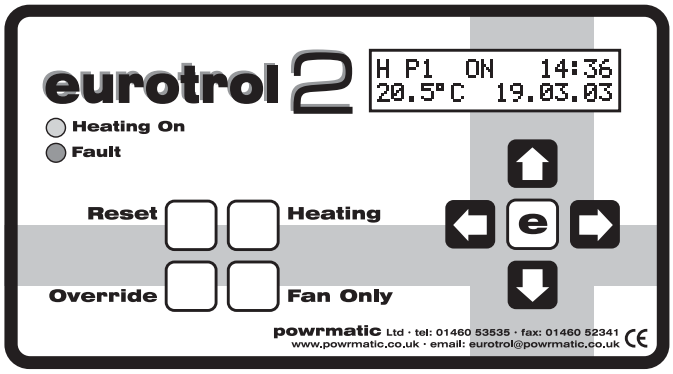
Installation and User Instructions



The eurotrol 2 is a high specification heating controller designed specifically to meet the demands of modern fuel efficient heating equipment and the latest environmental guidelines.

The eurotrol 2 uses optimum start technology as standard. This feature allows the controller to learn the amount of energy required to raise the building temperature to the required level when occupancy begins. The eurotrol 2 is continually monitoring the heating systems previous performance to determine the optimum time to turn the heating on with respect to the climatic conditions at the time.

Optimum stop technology can also be selected which can save energy at the end of the heating period.

Different temperatures may be selected for different times of the day to allow for variations in working practices.

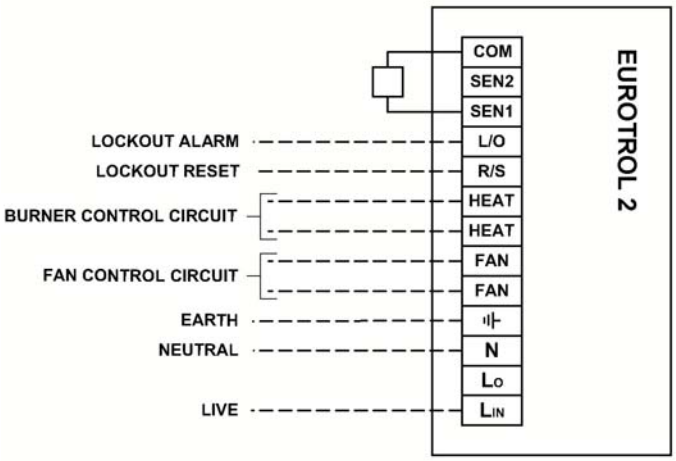
The eurotrol 2 comes preprogrammed with all data and a typical heating schedule. All parameters can be easily adjusted after entering a password which may be assigned by the user using the 5 button keypad. As detailed later in this manual.

The 4 button user keypad may be locked in various combinations to allow different levels of user accessibility.

The eurotrol 2 can give a readout of the hours the burner has operated, to help accessing servicing intervals and after being programmed with the correct data, can also give an indication of the running costs.

These features together with others explained in this manual make the eurotrol 2 one of the most high specification stand alone heating controllers available.

Connections



POWRMATIC CONTROLLERS EQUIVALENT TERMINAL Nos

EUROTROL 2		POWRTROL		EUROTROL		'OLD' POWRTROL
FAN	→	VENT	→	FAN CCT	→	6
FAN	→	VENT	→	FAN CCT	→	5
HEAT	→	HEAT IN	→	CTRL CCT	→	2
HEAT	→	HEAT OUT	→	CTRL CCT	→	1
N	→	N	→	N	→	4
LIN	→	L	→	L	→	3

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User keypad (4 Buttons)

Heating Switches the control to heating mode when in fan only mode. Fan only mode will be reverted to on the next calendar day.

Fan Only Switches the control to fan only mode when in heating mode. Heating mode will be reverted to on the next calendar day.

Reset Resets the burner from lockout, (when this facility is available), and resets the run log to zero when used in the main menu.

Override Pressing once will initiate or cancel the extension time. Holding down for 5 secs. will activate the 'soft override' (will change the programs On or Off state until the next program step). Used as the 'escape key' in the programming menus.

Programming keypad (5 Buttons)

[e] Enters data, traverses between menu screens and data screens. Holding down for 5 secs. will display the run log.

[↑] [↓] Traverses between menu screens and increases or decreases the selected values in the data screens.

[←] [→] Traverses through input sectors on data screens.

The main display

The main display gives extensive information of the operational state of the controller

H P1 ON 14:36 20.5°C 19.03.03	Current time (24 hour clock)	OFF 14:36 20.5°C 19.03.03	Off Mode
H P1 ON 14:36 20.5°C 19.03.03	Current date (day.month.year)	H P1 ON 14:36 20.5°C 19.03.03	Heating Mode
H P1 ON 14:36 20.5°C 19.03.03	Current room temperature	F P1 ON 14:36 20.5°C 19.03.03	Fan only Mode
F P1 ON 14:36 20.5°C 19.03.03	Program No.	H HOL OFF 14:36 20.5°C 19.03.03	Holiday Mode
H EXT ON 14:36 20.5°C 19.03.03	Extension time active	H O/R ON 14:36 20.5°C 19.03.03	Override
LOCKOUT 14:36 20.5°C 19.03.03	Lockout	SERVICE DUE 01460 53535	Service Reminder

Overview

The eurotrol 2 comes preprogrammed with a typical heating program.

After installation the minimum setup required will be to program the current time and date.

The method of programming this is carried out in a similar manner to that of altering any of the pre-entered data.

Power up

On initial power up a blank display followed by a partial display will appear for up to 15 seconds before the full display.

Programming the date and time

Note: GMT and BST will automaticaly be set and will change automatically twice each year.

H P1 ON 00:00 20.5°C 01.01.03	From the main screen press	[e] to enter the password screen
ENTER PASSWORD 0000	From the password screen press	[e] to enter the main menu
MAIN MENU SET MODE ↓	From the main menu screen press	[↓] to enter the programs screen
MAIN MENU ↑ PROGRAMS ↓	From the programs screen press	[↓] to enter the block day temp screen
MAIN MENU ↑ BLOCK DAY TEMP ↓	From the block day temp screen press	[↓] to enter the set clock screen
MAIN MENU ↑ SET CLOCK ↓	From the set clock screen press	[e] to enter the set clock data screen
SET CLOCK: 00:00 WE 01.01.03	In the set clock data screen press	[↑] to adjust the first hour digit (24H)
SET CLOCK: 10:00 WE 01.01.03	Press [→] to move to the next digit, press	[↑] to adjust the second hour digit
SET CLOCK: 14:30 WE 19.03.03	Press [→] to move to the next digit, press	[↑] to adjust the selected data
SET CLOCK: 14:30 WE 19.03.03	Press [e]	to enter the data and return to the set clock screen
MAIN MENU ↑ SET CLOCK ↓	From the set clock screen press	**Override** [ ] to return to the main screen

Entering the switching program

Individual days may be programmed with up to 3 entries (P1-P3) and a Monday to Friday block may also be set with a further 3 entries.

Note: A basic program of Monday to Friday on at 08:00 (8am) and off at 17:00 (5pm) and a block tempereature of 20ºC is preprogreammed into the eurotrol 2.

Block temperatures

A block temperature is set which is automatically entered into every switching program.
As each switching program is enterd the required temperature may be adjusted without affecting any other entry. If the block temperature setting is subsequently adjusted then all program entries will revert to this temperature

From the main screen press (e) to enter the password screen

From the password screen press (e) to enter the main menu

From the main menu screen press (↓) to enter the programs screen

From the programs screen press (↓) to enter the block day temp screen

From the block day temp screen press (e) to enter the block day temp data screen

Use the arrow keys to adjust the block temperature (↓ ↑ → ←)

Press (e) to enter the block day temp and return to the previous screen

From the block day temp screen press (↑) to enter the programs screen

From the programs screen press (e) to enter the programs data screen

The program

Press (↑) to alter the day (individual days are selectable together with MO-FR as one entry)

Press (→) to select the program number (3 programs P1-P3 are available for each day)

Press (↑) to alter the program number (if required)

Press (→) to select the temperature (↑ ↓) to alter (if required)

Press (→) to select the √ or X (↑) to alter (X will temporarily disable the program entry)

Press (→) to select the first figure (↑ ↓) to alter (if required)

Press (→) and (↑ ↓) to alter the subsequent figures in the on and off time

Press (→) to select the day again. Work through subsequent days and programs as required for your program

Press (e) to enter the program and return to the program screen

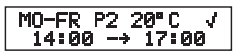
Press **Override** ( ) to return to the main display

Sample program

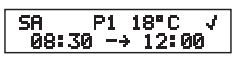
The screens pictured below show the settings required for the following program:
Monday to Friday on between 8am and 1pm controlled at 20ºC
Monday to Friday on between 2pm and 5pm controlled at 20ºC
Saturday on betweent 8.30am and 12pm controlled at 18ºC

1. Set Block temperature to 20ºC
Sets all day temperatures to 20ºC

2. Set MO-FR Program 1: On 08:00 Off 13:00
Sets these times for Monday through to Friday



3. Set MO-FR Program 2: On 14:00 Off 17:00
Sets these times for Monday through to Friday



4. Set SA Program 1: Temp 18ºC: On 08:30 Off 12.30
Sets these times and temperature for Saturday

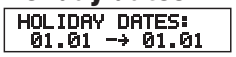
Menu Options

Menu and data input screens are selected and data is input, using similar button sequences to that used in setting the clock.

Set Mode

Main menu: Set mode
Sets the operational mode for the controller.

Holiday dates



Main menu: Holiday dates
Suspends the program while the buiding is unoccupied..

Run log

Main menu: Run log
Displays burner hours run and approximate running cost.

Note: Run log may also be displayed from the main display py pressing and holding (e) for 10 secs. (Password not required)

Extension time

Advanced menu: Extension time
Extends the current program when Override ( ) is pressed once.

Constant fan

Advanced menu: Constant fan.
Heater fan runs constantly during program times in heating mode.

Night temp

Advanced menu: Night temp.
Sets temperature that heater operates during program OFF times. May be turned On or OFF

Frost temp

Advanced menu: Frost temp.
Sets temperature that heater operates during fan only and OFF mode. May be turned On or OFF

No. of sensors

Advanced menu: No. of sensors.
Sets the number of sensors connected.

Optimum stop

Advanced menu: Optimum stop.
Sets the temperature differential for optimum stop to begin.

Optimum stop:
Set temperature differential (preprogrammed to 0ºC).
Optimum stop will switch off the heating to save energy before the end of the program time.

Example: If the heating program calls for the building to be heated to 20ºC, but it is felt that at the end of the heating program this temperature could drop to 18ºC with no detrimental effect, then the optimum stop should be set to 2ºC (20ºC - 18ºC). This 2ºC will be applied to any of the programs in use.
Note: A setting of 0ºC effectively turns optimum stop off.

Power and cost

Advanced menu: Power and cost.
Enters data to calculate approximate running cost.

New passsword

Advanced menu: New password.
Sets new password.

Service Date

Advanced menu: Service Date.
Displays service reminder and contact phone No.

Control mode

Extended menu: Control Mode.
Currently unavailable on this model.

Differential

Advanced menu: Differential.
Sets the switching differential for all set points.

Button Access

Advanced menu: Button access.
Sets the level of user button access.

Engineer

Extended menu: Engineer.
This menu only available to powrmatic engineers.

Eurotrol 2 - Menu Layout