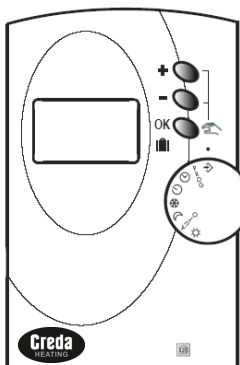




Installation and Operating Instructions

PW E4ZC: 4 Zone Wall Mounted Pilot Wire Controller

November 2011 - Issue 2



Dimensions (mm)		
Height	Width	Depth
120	85	31

THESE INSTRUCTIONS SHOULD BE READ AND RETAINED FOR FUTURE USE

IMPORTANT SAFETY ADVICE

WARNING—This product must be installed by a competent person or electrician in conjunction with the current IEE Wiring Regulations and relevant Building Regulations

- **DO NOT cover or obstruct the air inlet or air outlet vents**
- **DO NOT recess the unit in to a wall, as this will cause overheating and potentially be a fire risk**
- **DO NOT install the unit in the immediate vicinity of a bathroom or swimming pool**

Pilot Wire Connection IMPORTANT

Do **NOT** connect the pilot wire to earth

Care should be taken with the installation of the pilot wire(s) as when switching to background (setback) they become energised at 240V although only at a current of 1mA. In every case a suitable means of isolation must be provided for the pilot wire and marked to indicate that two sources of supply may be present at the heater.

Where pilot wires are installed separately from the heater final sub-circuit they should be protected, double insulated and carry their own integral earth continuity conductor.

Note: Pilot wire installations are appropriate for single phase connection only

General Principle

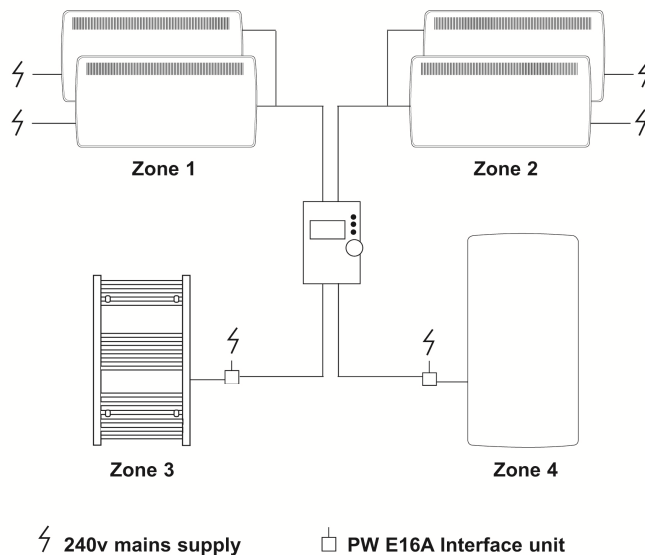
The PW E4ZC controller is compatible with Creda EcoReponse, Contour100, TPRIII E and EPH heaters.

The PW E4ZC controller is designed to allow control of multiple Creda heaters from a single point.

Each heater contains a mains cable with a fourth black pilot wire which can be connected to heaters in a system in series.

The controller uses the pilot wire to conduct a 240V, low current signal to each heater to change the heater mode (e.g. comfort, background or on, off)

Only one programmer is required for up to 20 heaters on the same zone. (See Fig.1 below)



Technical Specification

Installation in an environment with normal pollution levels

- Power supply - 230V~AC, +/- 10%, 50Hz
- Functioning temperature - 0 to +40°C
- Storage temperature - -10°C to 70°C
- Type of disconnection: micro-switching / 1.C type according to EN 60730-1
- Clock back up in case of power failure - 4 hours (approx.) Capacitor
- Consumption—2VA
- Class - II
- Protection - IP30

Installation and Electrical Connection

WARNING - This product must be installed by a competent person or qualified electrician.

The PW E4ZC must be wall mounted as follows:

- Remove single screw from underneath unit **Fig.2 (1)**
- Separate base, remove bottom centre screw from base and remove cover to expose electrical connections **Fig.3 (1)** and **Fig.4**
- Install the base with the appropriate screws and fixings for the wall type (not supplied) **Fig.2 (2)**
- Connect the two supply wires to the corresponding Neutral (6) and Live (8) terminals in the base and connect pilot wire(s) (1-4) **Fig.4**
- Position the unit on the base, first hooking the two recesses in the inside top over the hooks on the base then gently swing the unit down so that the pins engage in the connector **Fig.2 (3)**
- Finally, secure with single fixing screw underneath **Fig.2 (1)**.

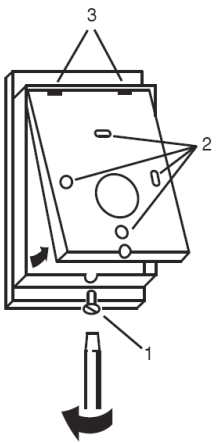


Fig.2

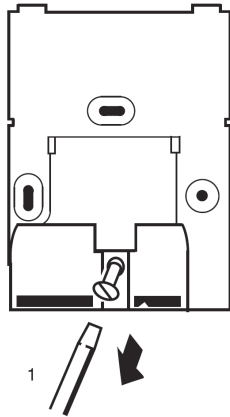


Fig.3

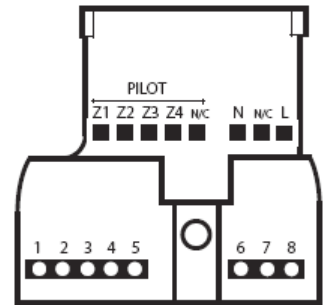
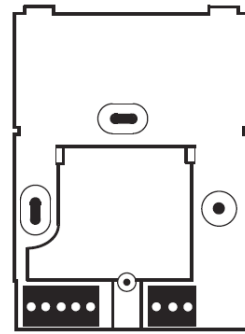


Fig.4

Controls

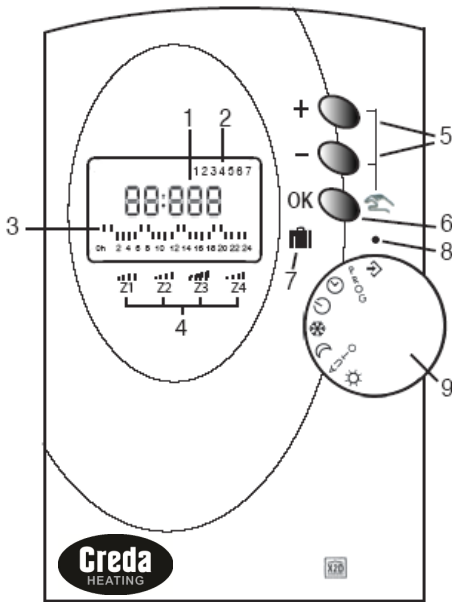


Fig.5

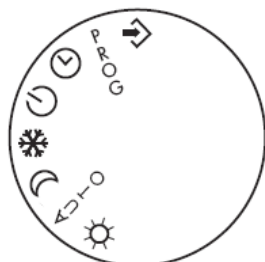


Fig.6

1 - Time (24hr)
2 - Day of the week
3 - Current mode: * on or off comfort or background comfort or frost protection
4 - Mode display for each zone
5 - Modification / override buttons
6 - Validation button
7 - Timed absence mode (e.g.holidays)
8 - Selector switch index mark
9 - Mode selector switch (see Fig.6 and Table 2 below)


Table 1 *Dependant on configuration (see 'Programming - Heater Modes' overleaf)

Symbol	Function
☀	Continuous comfort (all zones)
AUTO	Auto mode (heating runs to the preset program for each zone)
☾	Continuous set back (all zones)
❄	Continuous frost protection (all zones)
🕒	Set the time
PROG	Set the daily programs
🔌	Off (no heat output)
↔	Configures receiver cassettes – MBS ONLY

Table 2

Programming

Setting the time and day

1. Turn the mode selector switch to the  position.
2. Press the '+' and '-' buttons to set the day
3. Press and hold the '+' or '-' button to cycle through the time faster.
4. Cycle through the time until the correct number corresponds with the present day (see Table 3) (i.e. If the present day is Tuesday, cycle through the time until the number 3 starts to flash at the top of the screen)
5. Once the present day is found set the time using the '+' and '-' buttons

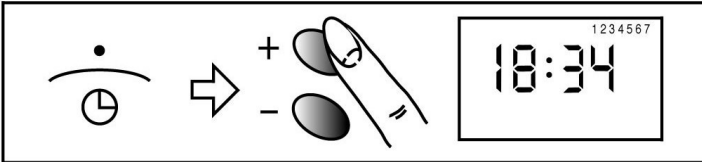


Fig.7

Number	Day
1	Sunday
2	Monday
3	Tuesday
4	Wednesday
5	Thursday
6	Friday
7	Saturday

Table 3

Setting the daily program

1. Turn the mode selector switch to the 'PROG' position.
2. 'P=1' will be displayed. for zone 1 to be programmed.
(To program another zone, press the '+' button and 'P=2' will be displayed for zone 2)
3. Press 'OK' and 'P=' will be displayed with the number '1' at the top of the screen to signify the first day.
4. Press the '+' button for one hour of 'comfort' or 'on' and press the '-' button for one hour of 'background', 'off' or 'frost protection' (depending on the configuration chosen).
5. If you wish to repeat a program for the following day, hold down the 'OK' button for 5 seconds and the controller will automatically copy the current program over to the next day
6. Press 'OK' to confirm
7. '2' will now appear at the top of the screen to signify the second day. Repeat steps 4 and 5 until all seven days are programmed
9. After programming zone 1, 'P=1' will be displayed again. Now press the '+' button to programme zone 2, 'P=2' will be displayed.
10. Press 'OK' and repeat steps 2-4
11. To run the program, set the mode selector switch to the 'AUTO' position

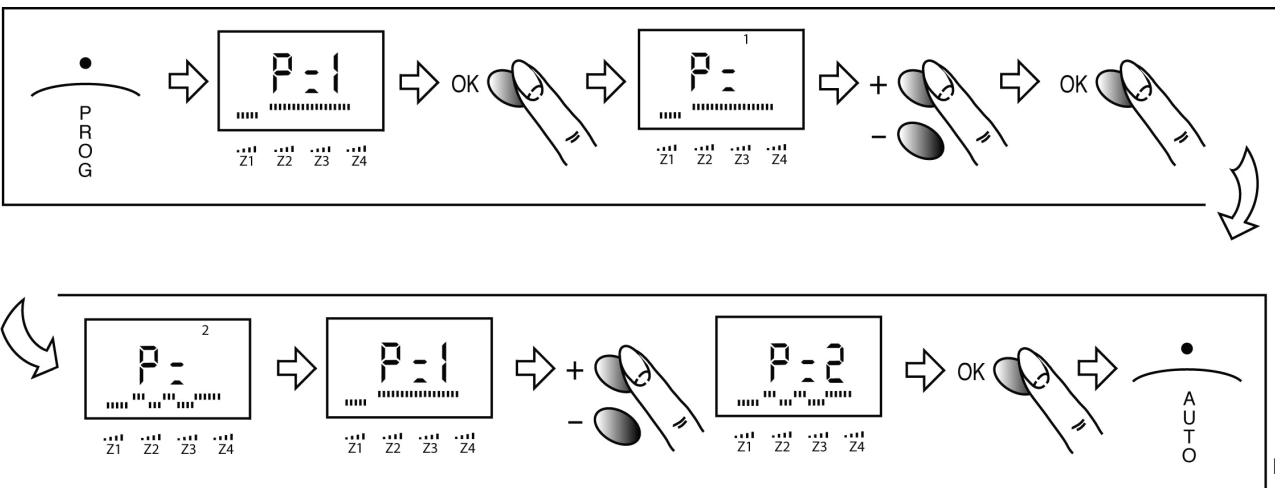




Fig.8

Configuration– Heater Modes

IMPORTANT - The ON/OFF mode (C1=2) cannot be used in conjunction with EcoResponse radiators.

The controller can be configured to operate various heater modes, dependant on the heating requirement. (As shown in Table 3)

1. To change the configuration, turn the dial to the  position
2. The display will change to 'PARA'
3. Press and hold down the '+' and '-' buttons and C1=1 will be displayed
4. To change the setting to 'C1=2' or 'C1=3', press the '+' or '-' buttons and press 'OK' to confirm (display returns to 'PARA')
5. If you wish to change these settings in the future turn the mode selector switch to the  position and repeat steps 2-4.

Display	Mode
C1=1	Comfort and background
C1=2	On and Off
C1=3	Comfort and frost protection

Table 4

Note: The configuration chosen will apply to all zones.

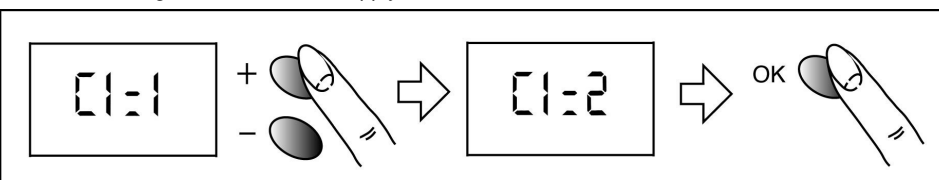


Fig.9

Operation

Running the daily program

Once the daily programmes have been set for each zone (see programming—setting the daily program) turn the dial to the Auto position. The heaters in each zone will function as per the programme

Overriding the daily program

When the programmer is in Auto mode, the setting of each zone can be temporarily overridden.

With the dial in the Auto position:

1. Press the 'OK' button, the bar(s) above zone 1 will flash.
2. Change the status of zone 1 by pressing the '+' and '-' buttons. Zone 1 will change between 1 and 4 bars (see Fig.10 and Table 5)
3. Press 'OK' to confirm, the bar(s) for zone 2 will flash.
4. Repeat the above steps for zone 3 and 4.
5. If you do not wish to change the status of a particular zone, simply press 'OK' to move to the next zone
6. Pressing the 'OK' button for zone 4 will return the screen to the normal 'AUTO' display.

If no button is pressed in the override mode for 30 seconds the screen will automatically return to the 'AUTO' display.

NB - The override function for each zone will end at the beginning of the next program

To override all zones to the same mode, turn the mode selector switch to the relevant symbol. See Fig.6 and Table 2 on page 2 for details.

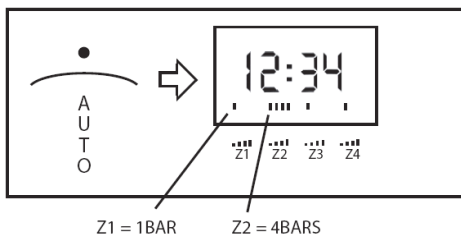


Fig.10

Mode	No.of bars
Comfort / On	4
Setback / Off / Frost protection	1

Table 5

NB - The above table depends upon the configuration chosen (see page 3)

Absence mode (Holiday)

The PWE4ZC incorporates a timed absence mode for when properties are vacant for a period of time (e.g. holidays). All heaters in all zones will provide a frost protection temperature for a set period of time.

1. Turn the mode selector switch to the 'AUTO' position.
2. Press and hold the 'OK' button for about 5 seconds.
3. 'Ab01' will be displayed and the timer has now started and all programs are overridden.
4. Press the '+' and '-' buttons for the amount of days you are away (up to 99 days).
5. At the end of the timed absence the controller will revert back to its original program.

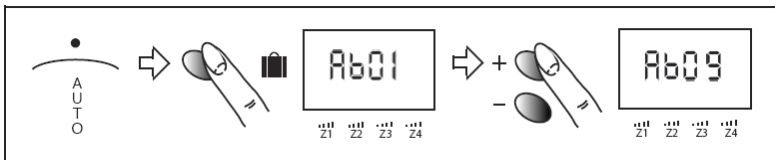


Fig. 11

After Sales Service

Your product is guaranteed for one year from the date of purchase.

Within this period, we undertake to repair or exchange this product free of charge (subject to availability) provided it has been installed and operated in accordance with these instructions. Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales service you should contact our customer services help desk on 0845 601 5111. It would assist us if you can quote the model number, date of purchase, and nature of the fault at the time of your call. The customer services help desk will also be able to advise you should you need to purchase any spares.

Please do not return a faulty product to us in the first instance as this may result in loss or damage and delay in providing you with a satisfactory service.

Please retain your receipt as proof of purchase.

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