



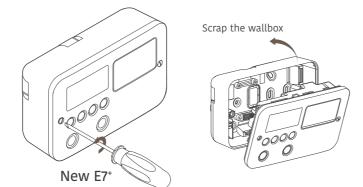




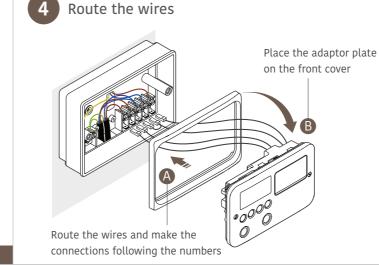


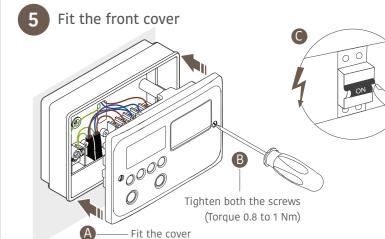


3 Remove both the screws on the front cover









Safety precautions

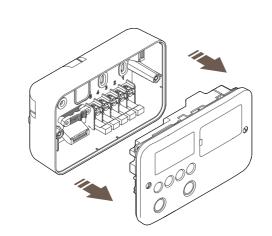
- Installation and connection should only be carried out by a suitably qualified person in accordance with the current edition of the IET wiring regulations.
- \bullet E7+ should be mounted approximately 1.5 metres above floor level, in 'free space', away from sources of heat or electrical interference.
- Means of disconnection from the supply having at least 3 mm contact separation in both poles must be incorporated in the fixed wiring.
- \bullet We recommends a separate fused circuit from the consumer unit (24 Hour supply) protected by a 15 amp HRC fuse or, preferably, a 16 amp MCB
- \bullet Installation of a 100 mA RCD will provide additional protection for the unit.

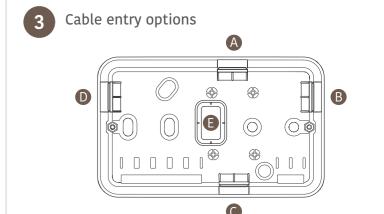
Note: Scrap the Wallbox adhering to local regulation



Note: The supplied Adaptor plate is ONLY required when retrofitting the E7* onto an existing Electronic 7 or Economy 7 quartz back box.

Take out the front cover





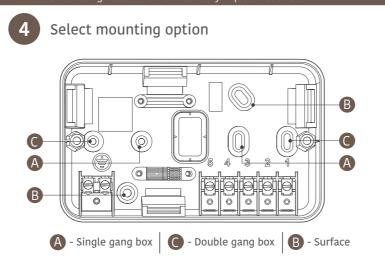
Note: Go to section 8 for settings

Note: Remove the suitable cable entry cutout before fixing the box. Take care to remove sharp edges.



Secure Meters (UK) Ltd Secure House, Lulworth Close, Chandlers Ford, Eastleigh, SO53 3TL, England





Note: Select the most appropriate mounting option

5 Connection diagram and cable details

Use a three-core cable with a minimum conductor size of 1.0mm for a 2kW heater, or 1.5mm for a 3kW heater to connect the unit to the supply. Connect the incoming wires to the terminal block as follows;

TERMINAL 1 -LIVE in

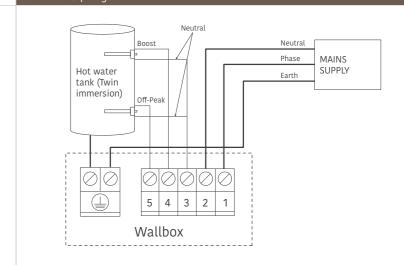
TERMINAL 2- NEUTRAL in

TERMINAL 3 - NEUTRAL(s) out to immersion heater(s)

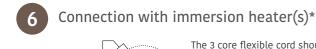
TERMINAL 4 - LIVE out to Boost immersion heater

TERMINAL 5- LIVE out to Off-Peak immersion heater

Clamp all surface wiring adjacent to the box or use trunking where appropriate. Secure the heat resistant flexible cords from the immersion heaters using the cable clamp in the box.



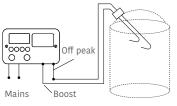
Note: Link terminals 4 and 5 when using a single immersion heater.



The 3 core flexible cord should be heat-resistant and rated to 85°C.

TERMINAL 4 (Boost live output) should be connected to TERMINAL 5 (Off-Peak live output) and to the immersion heater.

The Neutral connection should go to TERMINAL 3 and the Earth connection to the EARTH TERMINALS.



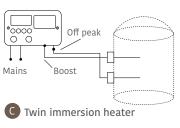
B Dual immersion heater

A Single immersion heater

The thermostat for the top (short) element is usually set 5-10°C less than the thermostat for the long Off-Peak element. The 3 core flexible cords should be heat-resistant and rated 85°C.

TERMINAL 4 (boost live output) should be connected to the short element and TERMINAL 5 (Off-Peak live output) to the long element.

The Neutral connections should go to TERMINAL 3 and the Earth connection to the EARTH TERMINALS.



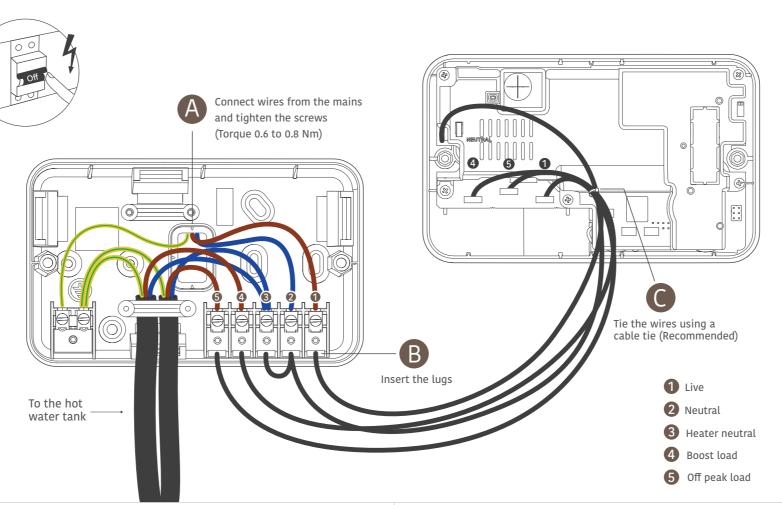
Note: Refer connection diagram in section 5

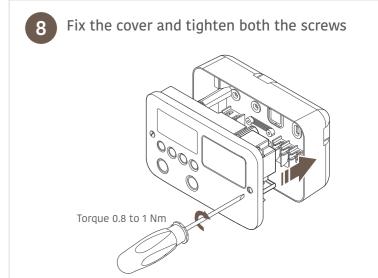
*For illustration only

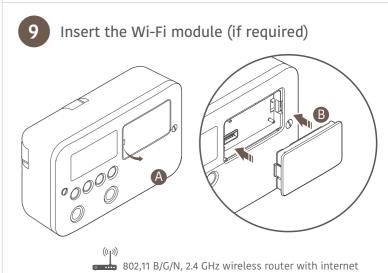
The thermostat for the top immersion element should be set lower than the thermostatforthe bottom immersion heater. The 3 core flexible cords should be heat-resistant and rated 85°C.

TERMINAL 4 (boost live output) should be connected to the top immersion heater and TERMINAL 5 (off-peak live output) to the bottom immersion heater. The two Neutral connections should goto TERMI-NAL3 and the Earth connections to the EARTH TERMINALS.

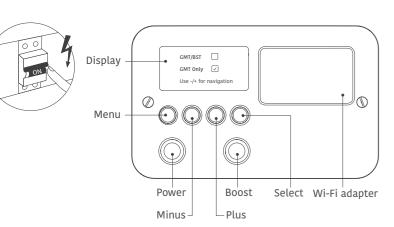
Make connections, insert the lugs according to the numbering and tie the wires using the cable tie.







Power up the device and select day light saving option



GMT/BST -Switching time will be changed by one hour. In the GMT/BST mode the clock display will match the actual switching time.

GMT ONLY- Switching will always take place at GMT times (summer and winter). The clock display will tell the correct lime of day.

If Connection is to be made where a 2-Rate electricity meter is controlled by a Radio Teleswitch or other equipment which control tariffs remotely or seasonally, it is essential that before setting the commissioning switch you find out how the

The Customer Service Centre of your Electricity Supplier will confirm information regarding Off-Peak electricity timing and the switching method used for your area. On installations where the 2-Rate electricity meter is controlled by a mechanical Tariff Time switch the commissioning switch should be setto GMT ONLY.

Home screens



Notes: 1. One of the above screens will appear on power up 2. III appears only

when E7⁺ is connected to the Wi-Fi network Technical specifications

Electrical	
Number of relays	2
Contact rating	13 A resistive (max), suitable for immersion heaters up to 3 kW
Contact type	Micro-interruption
Switch type	Contact
Supply	230 V ± 10%AC, 47.5 - 52.5 Hz
Insulation category	CAT II
Software class	Class A
Clock	12/24 hours
Programme selection	Off-Peak - upto 3 on/off time periods, programmable boost and 30 minutes, 1 hour & 2 hours manual boost
Live parts	Enclosed
Radio	
Operating frequency	2.4 GHz
RF range	~60m, line of sight

Mechanical		
Dimensions	102 mm x 165 mm x 54 mm (W*L*H	
Weight	425 gms (approx)	
Case material	Thermoplastic, flame retardant	
Mounting	Wall mounting	
Environmental		
Impulse voltage rating	Cat II 2500V	
Enclosure protection	IP30	
Pollution degree	Degree 2	
Operating temperature range	0°C to +35°C	
Storage temperature	-20°C to +70°C	
Environmental humidity range	0% to +95% relative humidity	
Product life warranty	7 years	
Compliance		
Product standards	EN 60730-2-9, BS EN 60730-1	
RED radio	ETSI EN 300 328,	
RED EMC	ETSI EN 301 489-1,ETSI EN 301 489-1	

Know the buttons

Button	Function(s)		
Power	To On/Off the device		
Select	To enter a setting/option To confirm a selection To enable/disable timed boost		
Plus (+)	To increase the date, time To navigate between different menus/menu items in the forward direction		
Minus (-)	To decrease the date, time To navigate between different menus/menu items in the backward direction		
Menu	To enter the main menu To return back to previous menu from within a submenu/selection		
Boost	To set Boost manually		

Default schedule (Monday to Sunday)

Off	1st On	1st Off	2nd On	2nd Off	3rd On	3rd Off
peak	2:15 am	7:15 am	12:00 pm	12:00 pm	12:00 pm	12:00 pm

Boost	On	Off	
DOOSE	12:00 am	12:00 am	