

Time Controller

24 hour
7 day

CI/SfB 1976 reference by SfB Agency

(687) X

The Time Controller works automatically to bring comfort, security and economy right through the home. It can be used with a wide range of electrical appliances; to switch on an electric over-blanket, heater or radiator in good time; to wake you up in the morning by turning on the radio or bedside lamp; to protect your house when you're out by switching on a light after dark.

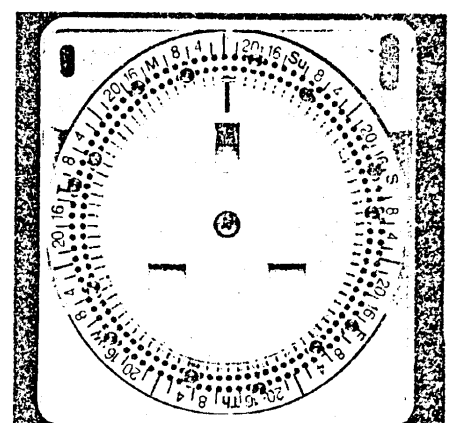
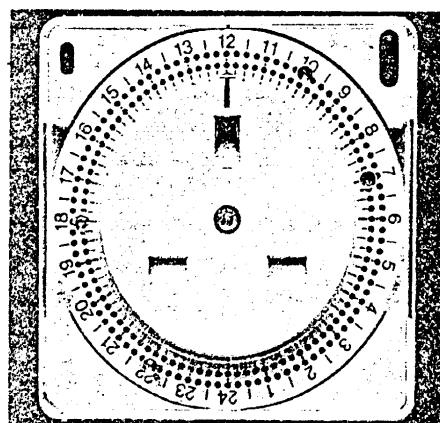
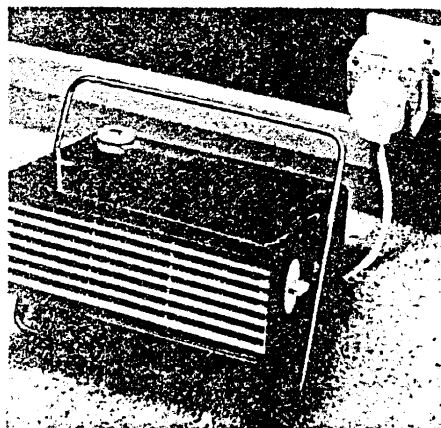
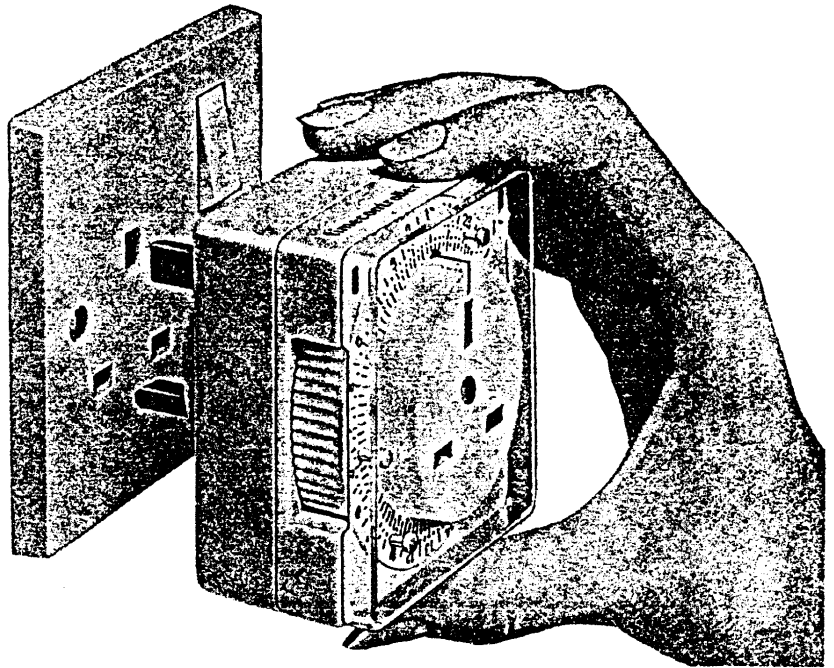
The Time Controller needs no expensive or complicated fixing – you just plug it into the socket, then plug in the appliance you want it to operate. It's safe, instant and easy to use.

For complete versatility, the Time Controller comes in two versions:

24 Hours (TS 100) Repeater Timeswitch
7 Days (TS 120) Repeater Timeswitch

And as an indication of the possibilities of use, the 24 hour model can be programmed to operate for up to 24 on/off cycles every 24 hours.

Not suitable for immersion heaters.



Time Controller

24 hour
7 day

TS100.

Technical specification

Working Voltage: 210/250 volts
Switch Rating: 13 amp
Power Consumption: Approx. 0.8 watt
Ambient Temperature: -10°C to $+50^{\circ}\text{C}$
Timesetting: Switch pins
Drive: Self-starting permanent magnet synchronous motor. 600RPM at 50 Hz.

Manual Override
Minimum Setting

24 Hr Setting interval 15 Min
Minimum time period 30 Min
7 Day Setting interval 2 Hrs
Minimum time period 4 Hrs



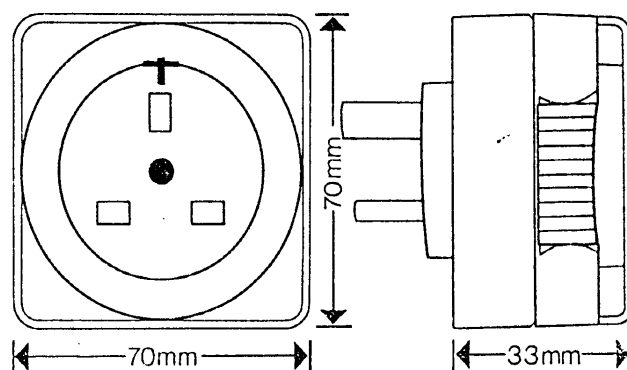
Available in single or 6 packs of either
24 hour or 7 day or combination of both.

Also in single blister packs.

 **SMITHS INDUSTRIES**

TIME CONTROLS

Tricklewood, London NW2 7UR.
answer phone 01-450 9402



General Purpose Time Switch

CI/SfB 1976 reference by SfB Agency

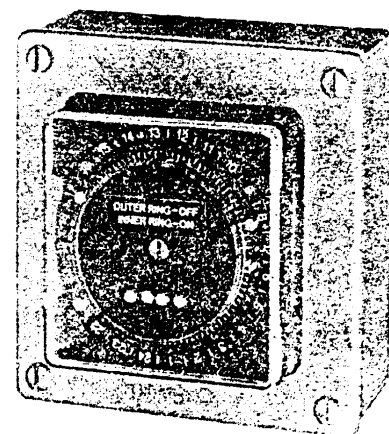
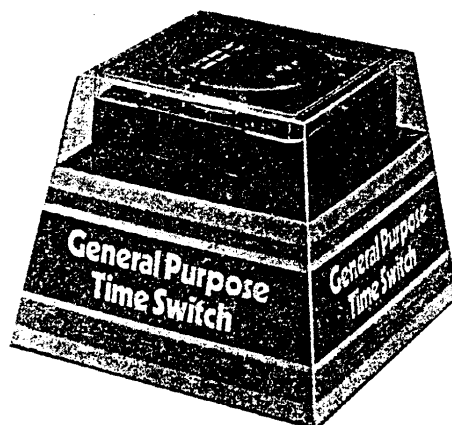
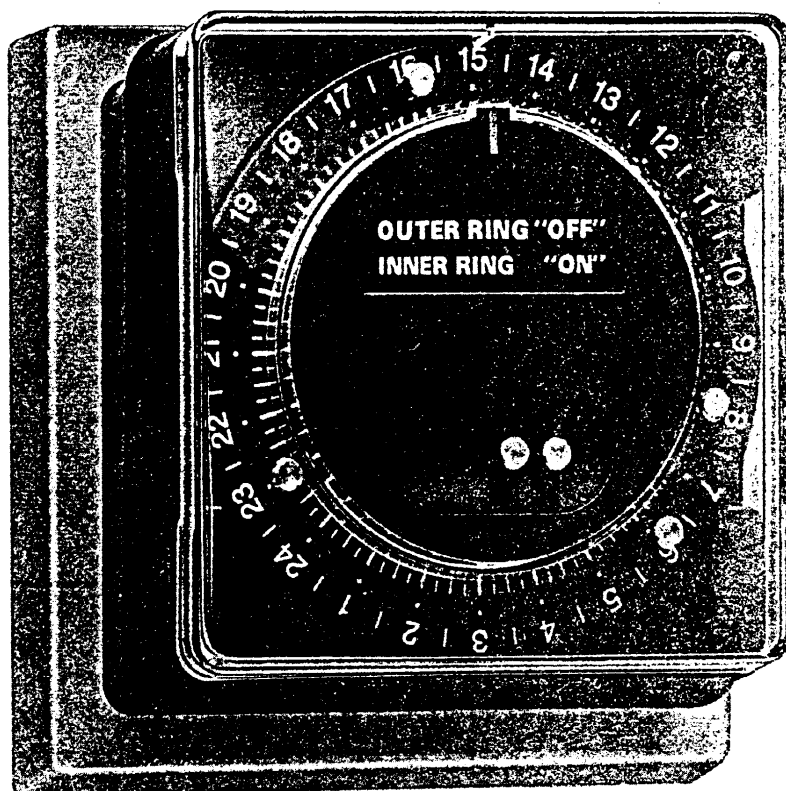
(68-7) X

24 hour
7 day

IS24S	TS306S	IS7DSKI	TS225S
IS24SKI	TS305S	IS7DC	TS256S
IS24C	TS356S	IS7DCKI	TS255S
IS24CKI	TS355S	IS24SM	TS308S
IS7DS	TS226S	IS24SMKI	TS204S

A range of general purpose timeswitches that, between them, cover nearly every conceivable need and use and that offer a wide variety of options: they can be panel or conduit mounted; can have snap-on or screwed connections; can be repeater or single function; can offer simple ON/OFF or changeover switching with a current rating of up to 16 amps resistive.

GP Timeswitches are accurate, simple to operate, neat, unobtrusive and good looking. They come in two basic versions - 24 hours and 7 days - each one available in four different types. The range offers a wide variety of programme periods that can be extended by the use of additional timesetting pins. There is also a manual advance on every switch.



DIAL ROTATION	SETTING INTERVAL	MIN ON/OFF PERIOD	SWITCH TYPE	RATING	CAT REF NO.
24 Hr	15 Min	30 Min	SP	16	IS24SKI (TS305/S)
24 Hr	15 Min	30 Min	SPCO	6	IS24CKI (TS355/S)
7 Day	2 Hr	4 Hr	SP	16	IS7DSKI (TS225/S)
7 Day	2 Hr	4 Hr	SPCO	6	IS7DCKI (TS255/S)

General Purpose Time Switch

24 hour
7 day

Technical specification

Working Voltage: 210/250 volts
Switch Rating: 16 amp
Power Consumption: Approx 0.8 watt
Ambient Temperature: -10°C to +50°C
Time Setting: Switch pins
Drive: Self-starting permanent magnet synchronous motor 600RPM at 50 Hz

Manual Override

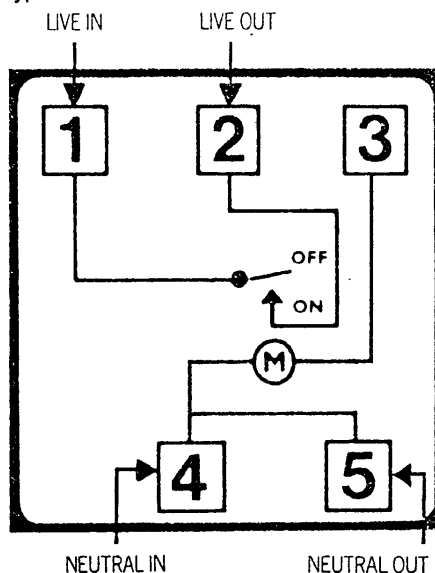
Adaptor Kits

Kit No. 1. AK300: Mounting plate, pattress, earth assembly, mounting screws. (This kit converts a basic timeswitch into a complete switch EG. Code TS306/S into a TS305/S).

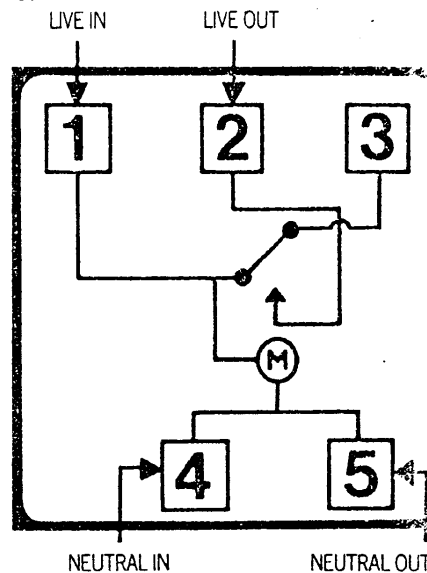
Kit No. 2. AK301: Adaptable box, mounting bracket, mounting screws. (4" x 4" adaptable box with mounting bracket and screws).

Kit No. 3. AK302: Mounting bracket and screw. (This kit can be used to mount basic timeswitch into a panel cut-out).

Type Nos. IS24SM and IS24SMKI



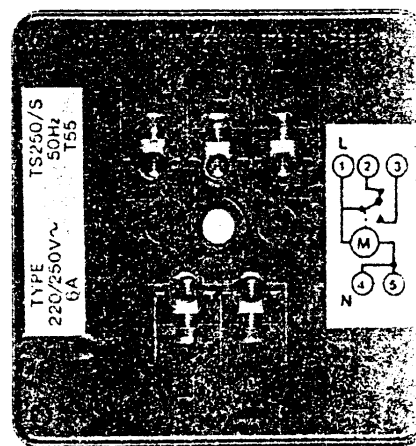
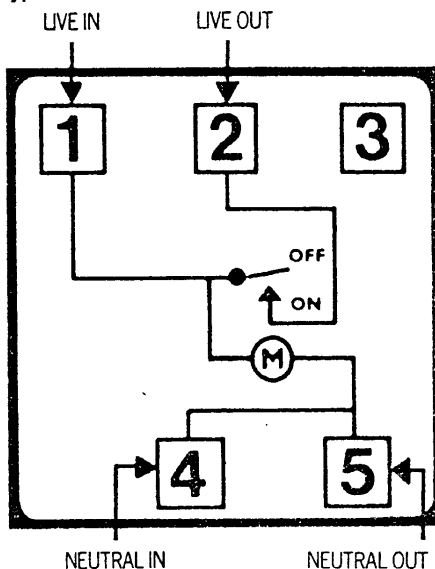
Type Nos. IS24C, IS24CKI, IS7DC and IS7DKI



TS305S

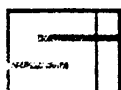
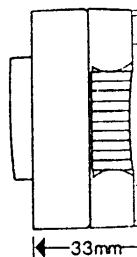
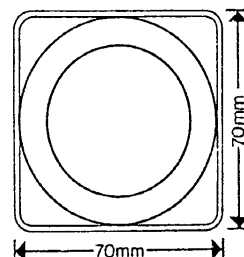
TS228S.

Type Nos. IS24S, IS24SKI, IS7DS and IS7DSKI



Note:

By reversing connections 1 and 2 the timer will operate as a 'run-back' timer of the manual 'on' run to 'off' type.



SMITHS INDUSTRIES

TIME CONTROLS

Waterloo Road, Cricklewood, London NW2 7UR.



Ideas in Action



24 Hour Plug-in Time Controller

Operating Instructions

1. Turn the ring dial clockwise until the correct time of day is directly above the time indicator notch at the top of the front socket face (see diagram)
2. To programme the controller:-
 - Decide what times you would like the timecontroller to switch on and off.
 - Insert the pins into the ring dial according to your requirements. To switch ON insert the pins in the inner circle of holes. To switch OFF insert the pins into the outer circle of holes.

Important

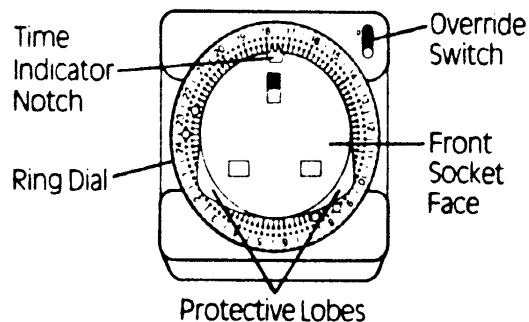
The pins should be pushed firmly home or they will catch on the underside of the protective lobes on the bottom of the front socket face (see diagram)

3. Check your programme by manually turning the ring dial once. When the pins pass over the time indicator notch it will require a firm hand
4. Ensure you set the ring dial back at the correct time of day (as in instruction 1).
5. Plug the Timecontroller into a socket.
6. Plug your appliance into the Timecontroller and switch on the appliance.
7. You can switch your appliance on and off at any time, by using the small lever at the side of the Timecontroller 0 = OFF, 1 = ON

Points to note:-

- a) Each time the Timecontroller has carried out a switching operation the manual switch cannot be operated for about ten minutes because it is mechanically locked for this period.

- b) If required you can programme your Timecontroller to switch off only or switch on only by inserting just the corresponding single pin. For many electrical appliances you can, therefore, programme for off only e.g. to ensure that if you forget to switch the appliance off nothing can burn or unnecessary power be used. With such appliances switch on by hand
- c) The ring dial can be turned even when the Timecontroller is operating. In case of power failure, please re-adjust the Timecontroller to the correct time of day, turning the dial in a clockwise direction.



Important

This Timecontroller is recommended for general domestic appliances up to 13 amp resistive or 2 amp inductive rating. Certain washing machines e.g. those with built in timers and some electronic machines require the power to be permanently connected and they cannot use the Timecontroller.

Note

Minimum setting intervals 15 minutes.
Minimum time between settings 30 minutes.

12 Month Guarantee

We shall repair or at our option replace this product if it becomes defective within 12 months of the date of purchase, provided that you return it to us with proof of purchase. A product becomes defective where it fails due to a fault in the material or workmanship, but not where the failure is caused by an

A PRODUCT OF



SMITHS INDUSTRIES

General Purpose Timeswitch

It is possible to switch your appliance on or off by using the small lever at the front or side of the timeswitch.

0 = off 1 = on

Your Timeswitch will return to its automatic sequence.

Each time the Timeswitch has carried out a switching operation the manual switch cannot be operated for about 1 hour because it is mechanically locked for this period.

If required, you can programme your Timeswitch to switch off only or switch on only by inserting just the corresponding single pin.

You can programme:

- (a) Switching ON and OFF daily
- (b) Switching OFF only (safety)
- (c) Switching ON only
- (d) Complete Day Omission (7-day version only).

The setting dial can be turned even when the Timeswitch is operating. In case of a power failure, please re-adjust the Timeswitch to the correct time of day, turning the 24-hour dial in a clockwise direction.

General Purpose Timeswitch

Instructions for use 24 hour & 7 day versions

every 24 hours.



7-Day Example

In the 7-day illustration below the current time is 10.00 hours (10 am) on Thursday.

- (i) it will switch off at 16.00 hours (4 pm) on Thursday
- (ii) it will switch on at 04.00 hours (4 am) Friday and off at 16.00 hours (4 pm) Friday
- (iii) it will switch on at 04.00 hours (4 am) and off at 10.00 hours (10 am) Saturday
- (iv) switch on at 04.00 hours (4 am) and off at 16.00 hours (4 pm) Monday, Tuesday and Wednesday
- (v) switch on at 04.00 hours (4 am) Thursday

Times shown are approximate.

4. Check your selected programme by turning the dial once around clockwise.

5. Replace the protective cover for protection against dust, children's hands and to avoid a change of programme through accidental contact.

Continued overleaf



1. Remove the transparent protective cover.
2. Turn the dial to the right until the time of day is immediately above the red arrow.
3. Programme your Timeswitch as follows:
Insert the timesetting pins in the appropriate holes in the dial, according to your requirements. To switch ON: pin goes into inner circle of holes. To switch OFF: pin goes into outer circle of holes.

24-Hour Example

In the 24-hour illustration above the current time is 12 noon. The Timeswitch has been set to switch the power on and off twice between 06.00 hours (6 am) and 21.00 hours (9 pm).

- (i) it will switch on at 06.00 hours (6 am) and off at 10.00 hours (10 am)
- (ii) it will switch on again at 16.00 hours (4 pm) and switch off at 21.00 hours (9 pm)

This on/off programme will be repeated every 24 hours.

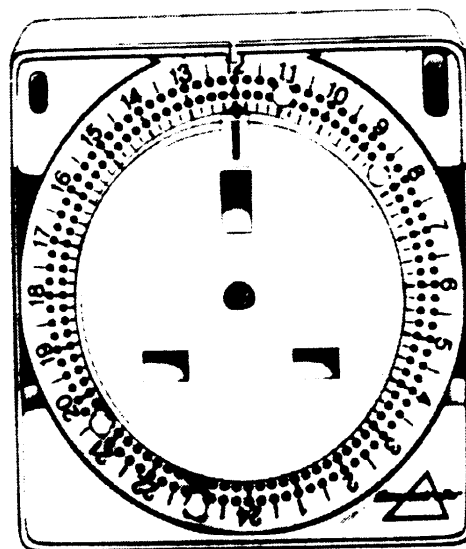
TS500

24 hr & 7 day plug-in timeswitch



The Time Controller works automatically to bring comfort, security and economy right through the home. It can be used with a wide range of electrical appliances; to switch on an electric over-blanket, heater or radiator in good time; to wake you in the morning by turning on the radio or bedside lamp; to protect your house when you're out by switching on a light after dark.

Instructions for use

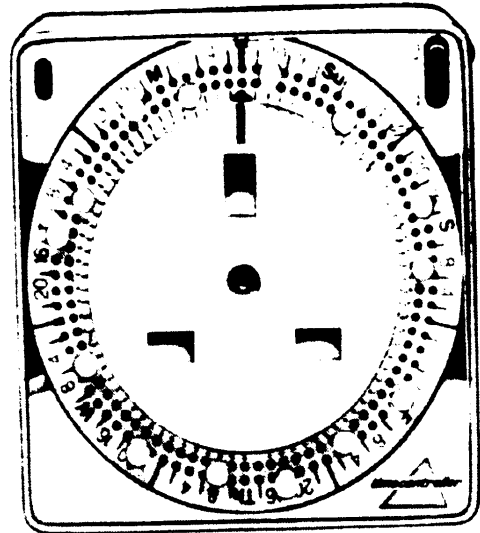


1. Remove the transparent protective cover.
2. Turn the dial to the right until the time of day is immediately above the red arrow.
3. Programme your TimeController as follows: Insert the timesetting pins in the appropriate holes of the dial, according to your requirements. To switch on: pin goes into inner circle of holes. To switch off: pin goes into outer circle of holes.

24-Hour Example

In the 24-hour illustration above the current time is 12 noon. The TimeController has been set to switch the power on and off twice between 08.30 hours and 23.00 hours.

- (i) It will switch on at 08.30 hours and off at 11.00 hours
- (ii) It will switch on again at 20.30 hours and



7-Day Example

In the 7-day illustration above the current time is midnight on Sunday.

- (i) It will switch on at 08.00 hours and off at 16.00 hours on Monday.
- (ii) On at 06.00 hours and off at 12.00 hours on Tuesday.
- (iii) On at 06.00 hours and off at 20.00 hours on Wednesday.
- (iv) On at 08.00 hours and off at 18.00 hours on Thursday.
- (v) On at 04.00 hours and off at 14.00 hours on Friday.
- (vi) On at 08.00 hours and off at 16.00 hours on Saturday.
- (vii) On at 08.00 hours and off at 20.00 hours on Sunday.

Times shown are approximate.

4. Check your selected programme by turning the dial once around clockwise.

5. Replace the protective cover for protection against dust, children's hands and to avoid a change of programme through accidental contact.

6. Plug the TimeController into the socket.

7. Plug your appliance into the TimeController and switch on the appliance.

It is possible to switch your appliance on or off by using the small lever at the front or side of the timeswitch. 0 = off 1 = on

Your TimeController will return to its automatic sequence.

Each time the TimeController has carried out a switching operation the manual switch cannot be operated for about ten minutes because it is mechanically locked for this period.

If required, you can programme your TimeController to switch off only or switch on only by inserting just the corresponding single pin. (For many electrical appliances you can therefore programme for off-only, eg to ensure that if you forget to switch the appliance off nothing can burn or unnecessary power be used.) With such appliances switch on by hand.

8. The 24-hour setting dial can be turned even when the TimeController is operating.

In case of a power failure, please re-adjust the TimeController to the correct time of day, turning the 24-hour dial in a clockwise direction.

IMPORTANT

Smiths do not advise the use of plug-in Time-switches for controlling immersion heaters. For use in these appliances, Smiths have designed the Imerset, a 24 hour repeater Timeswitch which can be wired into the flexible cord to the heater on most installations