TECHNOTREND ™

Phoneswitch TPS 2000

USERS GUIDE

Thank you for purchasing a Technotrend Phoneswitch. Please read through this user guide carefully and keep it for future reference. A customer care service is available if you have any problem understanding this user guide.

The Technotrend Phoneswitch (the "Phoneswitch") is designed for the remote switching on and off, by telephone, of plug-in electrical equipment (e.g. certain plug-in appliances, radios and lighting). Any standard tone dialling telephone or mobile phone can be used. Access to the Phoneswitch is protected by a personal access code ("Personal Access Code"). The Phoneswitch also has a countdown timer facility so that the equipment can be set to switch off automatically after a selected period of time.
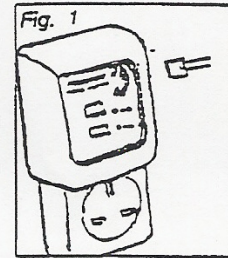
This user guide describes the installation and operation of the Phoneswitch. The Phoneswitch Card is all you will need for routine use.
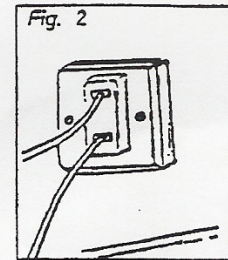
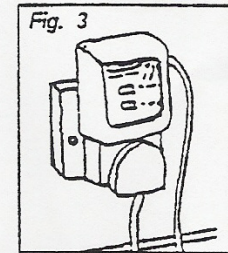### INDEX

INSTALLATION INSTRUCTIONS

Fig. 1

1. Connect the telephone cable supplied into the telephone socket on the side of the Phoneswitch. (If you need a longer length of cable, use a standard telephone extension lead in conjunction with the cable supplied which is specially wired for the Phoneswitch.) *(Fig. 1.)*

2. Plug the telephone lead into the telephone wall socket having disconnected any other apparatus connected to that socket. The telephone can be reconnected using the socket on the adapter which is supplied with the Phoneswitch. *(Fig. 2)*
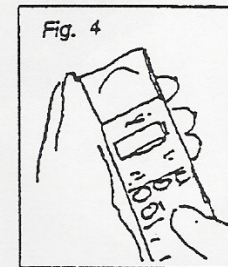

Fig. 2

3. Connect the equipment to be controlled into the outlet power supply socket on the front of the Phoneswitch. *(Fig. 3.)* **It's a good idea to use a table lamp whilst you acquaint yourself with the operation of the Phoneswitch and its features.** Plug the Phoneswitch into the power supply socket and switch on the socket and the table lamp. The green code light on the Phoneswitch will begin flashing.

4. Before you can use the Phoneswitch, you must set your own Personal Access Code. This is easy to do. First choose a code number consisting of between one and four figures and write the number down in the box in paragraph 5 below.

Fig. 3

5. Using a separate tone dialling telephone (see note on page 4) ring the telephone number to which you have the Phoneswitch connected. *(Fig. 4.)* The call will be answered after 5 or 6 rings and you will hear a series of rapid beep-beep tones. Now use the telephone keypad to enter the preset access code *0000#. You will now hear a long continuous tone. Now key in *9*□□□□#. You will then hear another long continuous tone. You can now end the call by hanging up the telephone. After a few moments the green code light will have stopped flashing and stay on continuously, indicating that your Personal Access Code has been stored in the Phoneswitch. **Please wait for the tone(s) to finish before entering your next command.**

6. You now have your own Personal Access Code for your Phoneswitch. Please enter the number in the space provided in "Operating Instructions" below and also on your Phoneswitch Card.

Fig. 4

7. The other apparatus which was disconnected from the telephone socket can now be reconnected, but see paragraph (e) under "Supplemental Instructions" below.

Please note: If the Phoneswitch does not recognise any figures or they are incorrect it will give 4 rapid beep-beep tones. If this happens, you do not need to hang up and re-dial, just key in the figures again. The Phoneswitch will recognise the figures as soon as they are keyed in the right order.

If you have any difficulty entering your Personal Access Code, or decide to change it you can end the call and reset the Phoneswitch. To reset, the Phoneswitch should be left in the power supply socket with the power ON, then press both the ON and OFF buttons simultaneously and hold them in for 5 seconds. The green code light will start flashing and you can now begin coding again. The Phoneswitch will remember your Personal Access Code even if you unplug it from the power supply socket.

OPERATING INSTRUCTIONS

Please write your Personal Access Code here *□□□□#

1. To operate the Phoneswitch ring the telephone number using a tone dialling telephone and the call will be answered after 6 rings (or such other number as may be selected – see "Operating Codes List" below). You will hear a series of rapid beep-beep tones. Now enter your Personal Access Code which includes the * and the # at either end.

2a. You will now hear a long continuous tone. You now have about 6 seconds to begin to enter the appropriate Code.

    ON = *1#   You will hear a single "burr" sound confirming that both the Phoneswitch and the equipment controlled by the Phoneswitch are ON (provided that the switch on the equipment had been left in the ON position before plugging it into the Phoneswitch).

    OFF = *0#   You will hear 2 short beeps confirming that both the Phoneswitch and the equipment controlled by it are OFF.

    While you are connected to the Phoneswitch you can switch the connected equipment ON and OFF repeatedly by keying in the appropriate Code. Remember to begin to enter Codes promptly as the Phoneswitch will otherwise shut down after a 6 second interval and you will then have to hang up and redial.

2b. You can also use the Phoneswitch to turn ON equipment and programme the Countdown Timer in the Phoneswitch to switch the equipment OFF again after a selected period of time. You can select any period of between 1-99 hours by keying in the Code shown below, with the figure for the number of hours in the blank positions. For example, for one hour ON, enter the single digit 1. For ten hours ON enter the two digits 10.

    1□□#   You will hear a single "burr" sound confirming that your instructions have been accepted by the Phoneswitch.

3. You can now end the call by hanging up the telephone .

4. The Phoneswitch can also be operated manually by the ON and OFF buttons on the front. Use these to check the operation of the equipment to be controlled. You can also leave the equipment switched ON and then switch it OFF again by means of a call to the Phoneswitch.

Important Notes:

A. If the telephone is occupied wait for a few seconds before re-dialling as the unit does not hang up immediately.

B. If there happens to be a power cut while the Phoneswitch is operating on a Countdown Timer setting, the equipment will go OFF and not be switched ON again until a new command is received by the Phoneswitch. A power cut would not affect any other setting, so the equipment that had been switched ON without a Countdown Timer setting would come ON again as soon as the power supply is restored.

SUPPLEMENTAL INSTRUCTIONS

(a) **Status Check**. You can check the status of the Phoneswitch, ON or OFF, at any time. To do this ring the telephone number to which the Phoneswitch is connected, enter your Personal Access Code and then key in *2#. You will hear either a long continuous tone for ON or 2 rapid beeps indicating OFF. (These are the same notes as you hear when you key in commands). You can then alter the setting of the Phoneswitch if required by entering the ON or OFF Code.

(b) **Outgoing calls**. The telephone line can be used for outgoing calls as normal.

(c) **Altering the number of rings**. You can alter the number of rings required before the Phoneswitch responds to the call (see "Operating Codes List" below). When a telephone line is also being used for normal telephone calls, an extended number of rings on the Phoneswitch will allow time for someone to answer these calls. The call will expect to have the phone answered quite quickly and if not would normally ring off before the Phoneswitch responds.

(d) **Incoming Calls**. If an incoming call is not answered and the caller allows it to continue to ring the Phoneswitch will eventually intercept the call. However, the Phoneswitch will only respond to the correct Personal Access Code and will otherwise automatically shut down after about 6 seconds. See paragraph 2a under "Operating Instructions".

(e) **Connection of other equipment to the telephone line.** When the Phoneswitch is required to share a line with other equipment, eg answering machine or fax machine the Phoneswitch should be set to Bypass mode. There are 2 Bypass methods depending on the user's preference:

Bypass Method 1.

(i) with the Phoneswitch set to respond to a long number of rings and the answering machine or facsimile machine set to respond to less rings, the Phoneswitch will be bypassed and will not operate.

(ii) with the answering machine or facsimile machine set to respond to more rings than the Phoneswitch, the Phoneswitch will respond with a series of rapid beep-beep tones and the Phoneswitch can be operated in the normal manner. However, if the caller is not familiar with the Phoneswitch (i.e. the tones heard) the Phoneswitch cannot be used, the caller will presumably ring off and then, if the caller immediately re-dials (i.e. within 2 minutes) the Phoneswitch will be bypassed and the answering machine or facsimile machine will respond in the usual manner. 3 minutes after the call has been terminated the Phoneswitch will revert to its normal mode of operation.

Bypass Method 1 also enables a single telephone line to be shared by several Phoneswitches, 3 being the likely maximum. Proceed as follows:

First decide which equipment to be controlled will be used most frequently and then those which will be controlled less frequently, placing the three in order of priority of use. The Phoneswitch controlling the equipment which will be used most frequently will be set to the shortest number of rings. The settings for the number of rings before each Phoneswitch answers the call should be as widely spaced as possible, for example 5 rings, 10 rings and 15 rings. Each of the Phoneswitches should also be given its own specific Personal Access Code. This ensures a command will only be accepted by the correct Phoneswitch.

When the equipment controlled by the Phoneswitch set to the shortest number of rings is to be operated, the Phoneswitch is used in the normal manner. However, when the equipment controlled by the other Phoneswitches are to be operated, the by-pass function of the Phoneswitch is used in the following manner. The telephone number is dialled and when the first Phoneswitch answers, you end the call by hanging up the telephone and then immediately redial the number.

This time the first Phoneswitch will not respond as it will be in bypass mode, so the second Phoneswitch will answer the call. At this stage you either key in the Personal Access Code for the second Phoneswitch to operate the connected equipment or hang up and redial the number to connect with the third Phoneswitch.

The actual number of Phoneswitches which can be connected to a single telephone line will depend upon the time taken to dial and be connected to each Phoneswitch. When several calls have to be made these should be made promptly so that they are within the 2 minute bypass period of the first Phoneswitch in the series.

Bypass Method 2

With this method it is possible to set the Phoneswitch so that it does not answer at all on the first call irrespective of the number of rings it is set to answer to in relation to the ancillary equipment.

Proceed as follows:

-after accessing the Phoneswitch with your personal code (confirmed with long continuous tone) set the Phoneswitch to answer after 2 rings by entering *8 *2#.
After the long continuous tone enter *7 *2#.   A long continuous tone will confirm. Hang up. The Phoneswitch will now be bypassed and will not answer at all thereby enabling callers to access your ancillary equipment.

-If you wish to access the Phoneswitch under this bypass condition then you must make two calls. With the first call hang up after 2 rings. **Wait for 15 seconds** and call the number again within 45 seconds and you will access the Phoneswitch. Then proceed as per Operating instructions.

-to cancel the bypass function and return to the normal setting press *7 *1#. We recommend you then also increase the number of rings that the Phoneswitch answers to using the *8 *□□# function.

Please note that when in Bypass Mode 2:-

-it is not possible to change the number of rings

-after the 2 calls the earliest the Phoneswitch will respond to the first of another 2 calls is just over 1 minute.

-when cancelling the Bypass mode 2 function the Phoneswitch will respond with 2 short beeps.

OPERATING CODES LIST

When the Phoneswitch answers your call, key-in Personal Access Code. After the long continuous tone, key-in the appropriate Code.

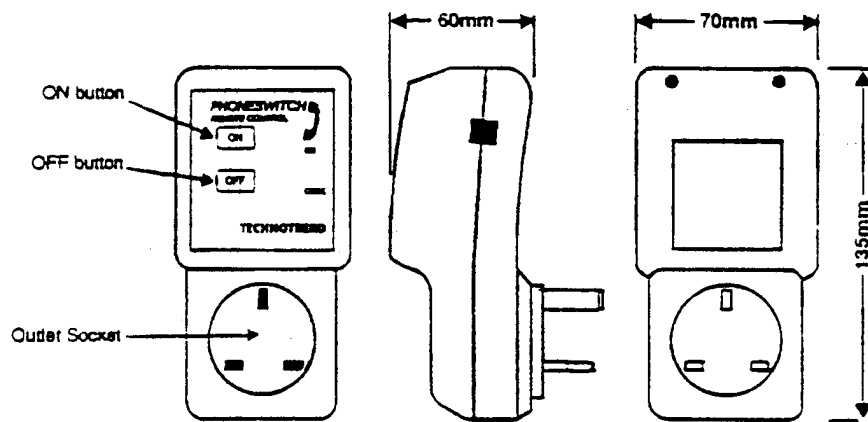|		
Personal Access Code	*□□□□#	You will then hear a long continuous tone
To switch ON	*1#	You will then hear a single "burr" sound
To switch ON and programme the Countdown Timer, use this Code with the number of hours ON (1-99) in the blank positions. (For 1-9 hours, just enter the single digit.)	*1*□□#	You will then hear "burr" sound
To switch OFF	*0#	You will then hear two short beeps
To check status	*2#	A single "burr" then indicates ON. 2 short beeps then indicates OFF.
To change the number of rings before the Phoneswitch answers the call, use this Code with the number of rings 1-15 in the blank positions. (For 1-9 rings just enter the single digit.)	*8*□□#	You will then hear a long continuous tone
To insert or change your Personal Access Code	*9*□□□□#	You will then hear a long continuous tone
To set to Bypass Method 2	*8*2# then *7*2#	
To cancel Bypass Method 2	*7*1#	

REMINDERS AND TROUBLE SHOOTING

- To operate the Phoneswitch you must use a telephone with tone dialling or a tone pad.

- If you hear 4 rapid beep-beep tones the Code has not been recognised. Check the Code and then key it in again, you do not need to ring off before re-keying.

- You have 6 seconds to begin keying in the Code. If you take too long the Phoneswitch will shut down and you will have to redial.

- Manual reset sets the Bypass Mode to Bypass Mode 1.

- If you forget your Personal Access Code or want to change it, follow the instructions shown at the end of "Installation Instructions".

- Always use the telephone connecting lead supplied with the Phoneswitch as this is specially wired.

- If you have any problems with the Phoneswitch or require assistance, please ring our Customer Care line an 01252 513346 during normal business hours.

TECHNICAL INFORMATION

The Phoneswitch is supplied complete with connection lead, adaptor, Phoneswitch Card and Full Instructions

TECHNICAL INFORMATION

Mains Voltage	220-240 Volts 50Hz
Maximum Loading	13 Amps 3kw
Signalling	Tone / M.F.
Rings Before Answering	1-15 (selectable)
Personal Code	1 - 4 digits
Countdown Timer	1 - 99 hours
Weight	300 grams

C E

COMPLIES WITH BS EN 60730-1 A12:1993
BS EN 60730-2-7 A12:1993
REGISTERED DESIGN AND PATENT PENDING

APPROVED for connection to telecommunications systems specified in the instructions for use subject to the conditions set out in them.

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SAFETY PRECAUTIONS

Do not use the Phoneswitch for controlling any appliance or equipment which requires supervision or which could be dangerous. Special care must be taken if a heating appliance is to be controlled.   This must be of a completely enclosed type and kept well clear of any clothing, furnishing or any other material. Connection to mains electricity should be made safely by means of a fused plug as the Phoneswitch does not itself contain a fuse. Attached equipment must always be unplugged from the power supply before any service work is carried out on it. If in any doubt consult a qualified electrician. The Phoneswitch is for indoor use only. It must not be used in bathrooms. Do not expose it to water. Do not attempt to open its case. Your Phoneswitch should be kept free of dust, moisture, high temperature, vibration and should not be exposed to direct sunlight. Do not place it in locations which prevent the free flow of air over its surfaces. Keep it out of reach of children. The casing of the Phoneswitch may be wiped clean with a soft cloth. Do not use any harsh abrasive cleaners.

TONE DIALLING

Modern telephones use tone dialling, but some older phones may still be on pulse dialling. The two types of dialling are easily recognised. Tone dialling produces a musical note when you dial. Pulse dialling produces a clicking sound. If the telephone is on pulse dialling, look for a small switch on the side or base of the phone marked LD/MF (if one is present) and switch to the MF position. To operate the Phoneswitch you will need either a tone telephone or a tone pad, both are available from telephone dealers. The Phoneswitch is not suitable for connection to PABX systems.

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