

## Keymaster 2+10

Any Keymaster telephone can make or receive calls

No specialist operator required

Push-button intercommunication between Keymaster telephones

Internal conference calls

Visual indication of the use of exchange lines

An economical arrangement for a small business, professional office, or a large house



## Capacity

The system normally works with either one or two exchange lines, but it can also be used with either one or two extensions from a Private Branch Exchange (PBX). A combination of an exchange line and a PBX extension can be accommodated. A system fitted with two exchange lines is described in this leaflet.

Up to ten Keymaster telephones with full facilities or eleven telephones with reduced facilities can be provided (see optional facilities).

## How it operates

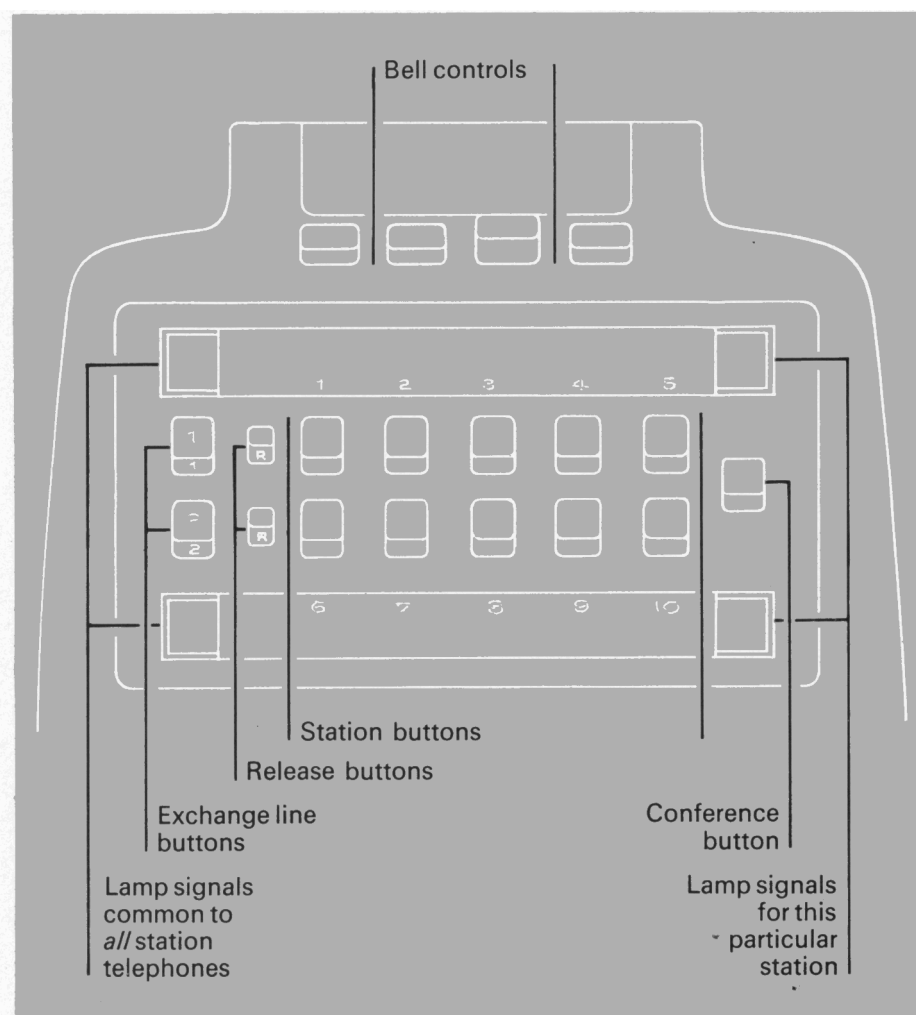
### To make an exchange line call

Raising the handset and pressing down exchange line button 1 or 2 connects a Keymaster telephone to one exchange line or the other. The lamp on the left, appropriate to the line being used, glows steadily on all Keymaster telephones while an exchange line is in use.

Additionally, the lamp on the right, appropriate to the line being used, glows steadily only on the Keymaster telephone using the line.

Incoming exchange calls ring bells at up to five selected Keymaster telephones on the system, and cause the appropriate lamp on the left of all Keymaster telephones to flash, in step with the ringing. The bell in any of these selected Keymaster telephones except the main can be cut off by pressing one of the bell control buttons, and restored by pressing the other.

It is usually convenient for users to arrange that calls are answered by one particular Keymaster telephone called the 'main' but any other can answer. As soon as a call is answered the flashing exchange line light becomes a steady glow on all Keymaster telephones.



### **To make an internal call**

To call another Keymaster telephone the handset is raised and the appropriate Keymaster telephone button is fully depressed to sound a buzzer in the required telephone. When the button is released it returns half-way to a 'speak' position, to connect the telephone to an internal call circuit.

If the required Keymaster telephone is engaged on an internal call the conversation will be heard. If it is engaged on an exchange call, the caller's own telephone buzzer sounds while the button is fully depressed.

To make an internal conference call up to 9 other Keymaster telephones can be called in turn and asked to hold on to join in the call. The conference button on the calling telephone is then pressed down, followed by all the Keymaster telephone buttons of those participating in the call.

### **Standard facilities**

Any Keymaster telephone can be connected directly to a free exchange line or to another Keymaster telephone by press-button.

Any Keymaster user can answer an exchange call, and hold it while making an enquiry call to another. The exchange line caller cannot hear the enquiry call. The signalling lamp on all the Keymaster telephones on the system flashes (more frequently than when an incoming exchange call is being signalled) while an exchange call is held.

After the enquiry the first Keymaster user can return to the exchange call, or the second can take over the call.

Any Keymaster user can hold an exchange call on one line while making or receiving a call on the other exchange line. There is no overhearing between these calls.

Two separate exchange calls from different Keymaster telephones and internal calls between the other Keymaster telephones can be in progress at the same time, without overhearing.

Up to five independent internal calls are possible at the same time between different pairs of Keymaster telephones.

Up to 10 Keymaster telephones can have a conference on an internal call, but it is not possible to include an exchange line caller in conference.

Any exchange line button, internal Keymaster telephone button, or conference button, depressed during or while making a call, on a Keymaster telephone, will release fully when its handset is replaced.

The exchange line buttons can be restored to normal without replacing the handset by pressing the release buttons. This facility is useful when both exchange lines are being used on one Keymaster telephone.

The lamp signalling is supplied from a power unit connected to the mains. In the event of a mains failure, the exchange lines can still be used, but internal communication is not possible.

### **Optional facilities**

An eleventh Keymaster telephone can be added to the system. Each Keymaster user calls the eleventh by using the button of his own Keymaster number.

There are practical limitations to the distances between Keymaster telephones and if service is required for example to outlying buildings, up to four extension or private circuit telephones, with limited facilities can be provided. Tablephones with two press-buttons are normally used on these extensions/private circuits.

If extensions/private circuits are provided, one Keymaster telephone (usually the main) is equipped with a control unit. There are two sizes of control unit, the smaller used when there is only one extension/private circuit and the larger (shown in photograph overleaf) for two to four extensions/private circuits. A second Keymaster telephone can be similarly equipped, if required.

The extensions can make outgoing exchange calls direct, but depend upon assistance from the Keymaster telephone with the control unit for incoming exchange calls.

Private circuits cannot make or receive exchange line calls.

The extensions/private circuits can be called direct from all Keymaster telephones but depend on the Keymaster telephone with the control for calls to other Keymaster telephones.

Any one Keymaster telephone including that with a control unit, can be arranged so that it can intrude on and 'monitor' an exchange call. No warning tone is given to the Keymaster user on the line.

It can be arranged that a Keymaster telephone engaged on an exchange call can be called by other Keymaster telephones. This is not possible on systems with eleven Keymaster telephones.

Any Keymaster telephone other than the main, or any extension can be connected in such a way that it cannot use an exchange line.

Alternatively particular Keymaster telephones may be modified so that their incoming or outgoing calls, can be connected only with the assistance of the main Keymaster telephone.

Any number of extensions can be given night service on incoming exchange line facilities, by means of a switch on the control unit, when the main telephone is not staffed.

### **General information**

Keymaster telephones and extension telephones can be provided in two-tone grey, ivory, and black.

Subject to the limitation of five bells which can ring at the same time, each Keymaster telephone houses a bell for exchange calls, and a buzzer for internal calls. The bell in an extension telephone signals both exchange and internal calls.

Separate additional bells and buzzers can also be provided.

The Keymaster telephones have grey terminal blocks approximately 160mm by 140mm by 45mm linked together with grey plastic-covered cable 11mm in diameter.

The small control unit measures approximately 140mm by 90mm by 75mm and the large unit approximately 170mm by 140mm by 75mm.

The system is mains-powered from a 3-pin socket outlet of at least 5-amp rating provided by the customer.

The basic installation requires a power unit weighing 18.1 kg and a relay unit weighing 5.4 kg. In addition, each extension requires a relay unit which weighs 7.3 kg. All of these units are wall-mounted, near a Keymaster telephone, normally the last on the system.

## Special note

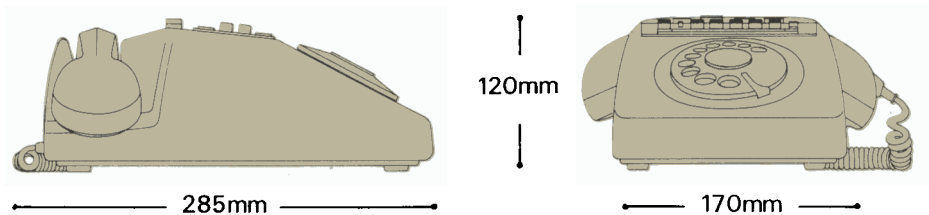
The order in which the Keymaster telephones are connected to the system needs careful consideration.

If the EXCH button on a Keymaster telephone 1 is pressed when the exchange line is in use by one of the other Keymaster telephones numbers 2 to 10 the telephone using the line will be cut-off. If the button is pressed on Keymaster telephone 2 the line is cut-off from 3 to 10, and so on. It follows therefore that the most important staff should have the earlier Keymaster telephones and the most junior staff the last. It is not wise to place the main Keymaster telephone, which answers the majority of calls, too low in the order as this may cause difficulty in fulfilling that task.

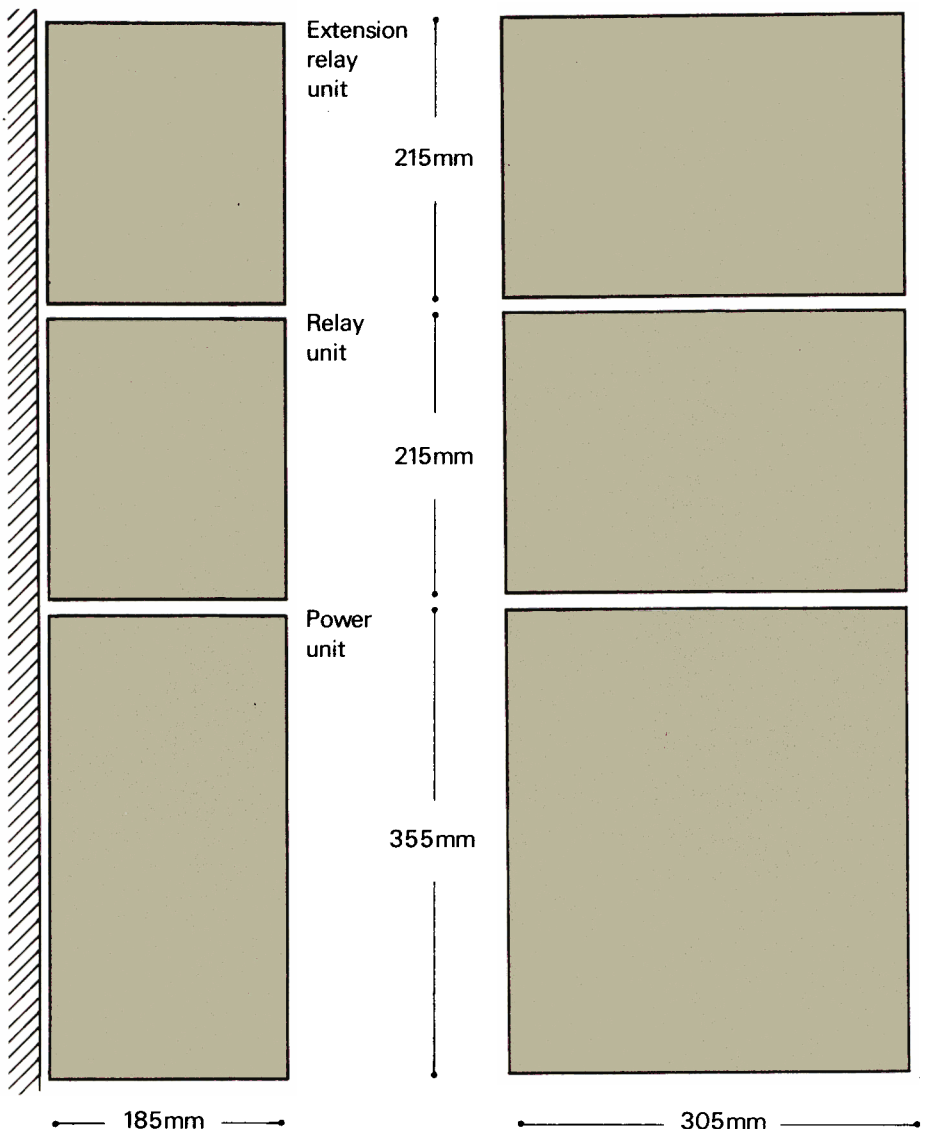
The order in which the Keymaster telephones are connected has direct bearing on the engineer's task of wiring the installation. It is essential that the requirements are fully discussed with our Sales Representative. He will prepare a schedule showing the desired sequence of the Keymaster telephones and liaise with the engineers to ensure that the requirements can be met.

## Dimensions

### Keymaster telephone



### Power and relay units



### Please note

We do our best to supply customers with the apparatus they ask for but we may have to provide apparatus which does not accord exactly with the descriptions and illustrations in this leaflet.

Your Telephone Sales Office will gladly supply any further or more up-to-date information. The address and telephone number are shown in the preface of your telephone directory.