

Private Automatic Branch Exchange 6 (PABX 6)

This automatic system meets the telephone requirements of organisations needing up to five exchange lines and twenty extensions.

It offers internal telephone service and public exchange service to the extensions without the use of a switchboard or operator.

One person can deal with the majority of incoming calls if a special telephone is provided.





Description

Selected extensions, known as designated extensions, are used to answer incoming exchange line calls and transfer them, if necessary, to other extensions.

Calls can be made directly between extensions by dialling the appropriate number.

Two lines can be provided to other Private Branch Exchanges (PBXs). The PBXs can be automatic or manually-operated.

The automatic equipment and mains unit are contained in a neat grey metal cabinet.

Designated extension facilities

Up to eight designated extensions can normally be provided. This can be increased to twelve if night service (explained later) is restricted.

Attendant's telephone Where it is necessary for one person to answer the majority of incoming calls, two designated extensions can be terminated on a special telephone with switching unit, enabling two calls to be handled at the same time.

An incoming exchange call rings bells sited near the designated extensions, and the buzzer in attendant's telephones. The call can be answered from any of these extensions simply by lifting the handset.

An external extension can be designated if a separate bell circuit is provided.

The incoming exchange call can be transferred to another extension by pressing a button on the telephone, dialling the required number, and, if the person answering agrees to take the call, replacing the handset.

If the person cannot take the call or suggests that it should go to another extension, the exchange call can be regained on the designated extension by pressing the button on the telephone.

If a transfer does not succeed for any reason, the incoming call automatically re-rings the designated extension.

An incoming exchange call can be offered to an engaged extension. By dialling an additional digit (1), the designated extension can interrupt the call in progress on the required extension. A ticking sound warns of the intrusion.

If the person on the required extension agrees to end his present call, the designated extension handset is replaced, and the new incoming call is held by the automatic equipment. When the call ends and the handset is replaced on the required extension its bell rings and the waiting caller is connected automatically when the extension telephone is answered.

While a caller is waiting there is no tone signal, and the person using the extension has no indication that the call is still waiting.

If more than one call is held for the same extension, there is random selection of the call to be first passed to the extension when it is free.

Common extension facilities

The following facilities apply equally to designated and non-designated extensions.

Calls can be made between extensions by dialling two-digit numbers between 20 and 39.

Exchange calls can be made from extensions by first pressing a button on the telephone to obtain an exchange line.

Any extension can be permanently barred from either making or receiving exchange calls, or both.

Any extension engaged on an exchange call, can hold it while making enquiry of another extension, or over an inter-PBX circuit. The original extension can then return to the call or transfer it.

Inter-PBX lines can be arranged as extensions over which exchange calls can be connected, or as private circuits over which they cannot.

Outgoing calls to other PBXs can be obtained by dialling a single digit code (7 or 8) to get the appropriate circuit. It may be possible to dial direct to the extension of another PABX.

Incoming calls on inter-PBX lines are dialled direct to the required extension.

Night service facilities

Night service is controlled by a button fitted on the attendant's telephone if one is provided, or if not, on any telephone.

When the button is operated, extensions with limited facilities during the day can be given full facilities at night, and those with full facilities can be limited at night.

Similarly, extensions which are barred from making exchange calls during the day can make them at night, while other extensions may be restricted.

It can also be arranged that additional or different calling bells can be rung for incoming calls during the night.

The number of extensions which can be given night service depends on the facilities required.

Mains failure arrangements

If the mains supply fails, all existing calls are disconnected and each exchange line is connected automatically to a particular extension. Each of the selected extensions then has all the facilities of a direct exchange line. The remaining extensions cannot be used during the failure.

When the supply is restored, exchange calls in progress are not interrupted, but as each one ends the exchange lines are switched back to the PABX.

PABX 6 Capacity

The capacity can only be increased beyond the limits shown by replacing the unit with a different type of PABX.

Exchange lines	5
Reduced by one for each inter-PBX line provided.	
Inter-PBX lines	2
Extensions	20
Includes two used by the attendant's telephone if provided.	
Reduced by one when one or two inter-PBX lines are required to one destination.	
Reduced by two when two inter-PBX lines are required to different destinations.	
Connecting circuits	4

General Information

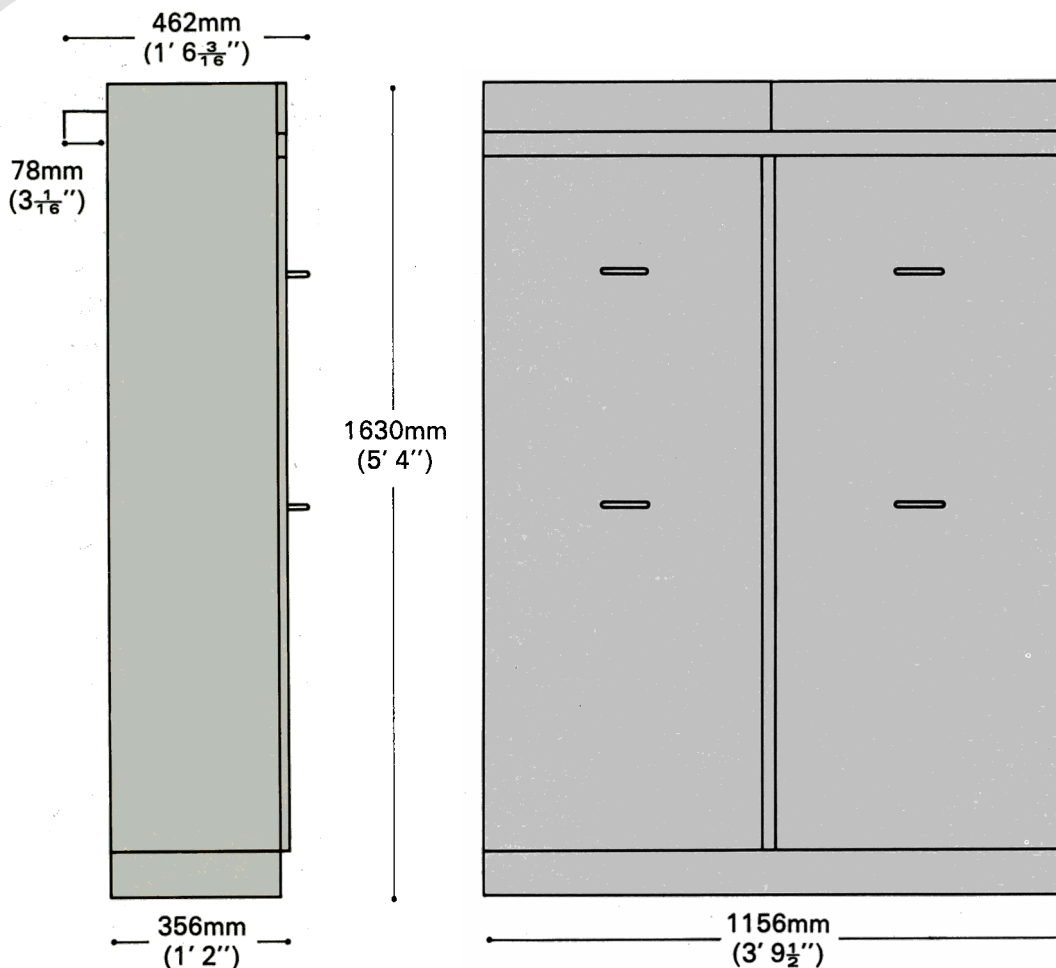
Table telephones in two-tone grey, two-tone green, light ivory, topaz yellow, lacquer red, concord blue, or black can be provided on the extensions. If wall-mounted telephones are required, the choice of colour is limited to two-tone grey, light ivory, or black. The attendant's telephone is two-tone grey.

Alarms A red lamp is provided on the attendant's telephone to indicate when a fuse blows in the automatic equipment. If the lamp glows the fault should be reported immediately.

If the attendant's telephone is not required the lamp can be fitted to any telephone, or a fuse alarm panel can be provided.

Tones Dialling, ringing, engaged, 'warn' and number unobtainable tones are provided from a unit in the PABX equipment.

Dimensions



Accommodation The metal cabinet containing the equipment and power unit is installed in the most convenient position near the centre of the bulk of the extensions.

The cabinet stands on the floor and is fixed to a wall. To allow easy access for maintenance purposes, a space of at least 910 mm (3') must be available in front of the cabinet.

The cabinet weighs between 181 and 300 kg (400 and 660 lb) depending on the equipment provided. Customers should ensure that the floor strength is adequate.

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

Please note

We do our best to supply our 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 information. The address and telephone number are shown in the preface of your telephone directory.