

Private Manual Branch Exchange 4 (PMBX 4) Single Position

May 1973

Descriptive
Leaflet

DLC 331

This single-position switchboard is basically equipped to meet the telephone requirements of small and medium sized organisations needing up to 10 exchange lines and 40 extensions.

The amount of work handled by the operator will vary considerably depending on the needs of the organisation. Under certain circumstances, as in hotels for example, the extension capacity can be increased up to 160.

Where the work is too much for one operator the Telephone Sales Office will advise on suitable PMBX installations with two or more positions.



Capacity

The basic switchboard is suitable for up to 10 exchange lines, 5 private or inter-switchboard circuits, and 40 extensions.

The number of extensions can be increased up to a maximum of 160.

The number of exchange lines and private or inter-switchboard circuits can also be increased, but the number of incoming calls which can be dealt with will be limited by the number of cord circuits fitted.

Free advice is given on the loading of the switchboard to ensure that the standard of service remains satisfactory.

Description

The switchboard has two panels of connecting jacks, and all exchange lines, extensions, private circuits and inter-switchboard circuits have individual calling lamps.

Ten cord circuits are normally provided on the switchboard to allow 10 calls to be connected at the same time. The number of cord circuits can be increased to a maximum of 15, if required.



Switchboard facilities

All calls are signalled by lights and, if required, an alarm buzzer. The buzzer which is set to low, medium or loud volume of sound, by the engineer who installs the switchboard, can be switched off by means of a key.

Visual indication of the next exchange line to be used can be provided, if required, although this facility is not usually needed for a single switchboard position. When provided, an illuminated arrow points to the first available line.

Automatic ringing (0.75 second on and 2.25 seconds off, repeated) is applied when a calling cord is plugged into an extension jack. Ringing continues until the extension answers.

Continuous ringing can be obtained on an answering cord by pressing a 'ring/answer' key while operating the 'speak' key.

An exchange call can be held by the operator while speaking to an extension. A different cord circuit is used to prevent the caller overhearing.

The operator can interrupt a call to ask if the extension will take another call.

A circuit is provided to prevent an incoming exchange call ringing an extension before the PMBX operator has been able to disconnect it from a previous exchange line call. A flashing signal draws the operator's attention to the new exchange line call.

In the event of a mains failure which cuts off power for signal lamps, bells, and internal calls, a restricted service is still possible. Exchange calls in progress remain connected, and the operator can still make and receive exchange calls.

Night service is arranged by connecting exchange lines to selected extensions.

A grey lightweight headset is provided for the operator. A twin socket allows for an extra headset to be plugged in for training purposes.

The switchboard dial can be changed by the operator and a spare dial is provided for each installation.

Extension facilities

Each internal or external extension telephone has a press-button so that the operator can be recalled, if necessary.

Extensions can be provided with dial telephones so that calls can be dialled direct when the extension is connected to an exchange line.

On an outgoing exchange line call, the line is released as soon as the extension handset is replaced.

Extension arrangements to plans 1, 1A, 2, 4, 9, 12A, 105, 105A, 107 and 107A can be provided on switchboard extensions.

Tablephones in two-tone grey, two-tone green, light ivory, topaz yellow, lacquer red, concord blue or black can be provided on extensions.

When wallphones are provided, the choice of colour is limited to two-tone grey, light ivory, or black.

Trimphones can also be provided on extensions for a small increase in the rental.

General information

The switchboard is finished in grey plastic laminate. The working surfaces and face equipment are in french grey, and the surrounding panels in elephant grey.

The switchboard is free standing and needs about 3' (900 mm) clear space behind it for maintenance purposes. There should also be at least 3' (900 mm) clearance to one side of the switchboard and 1' (300 mm) on the other, and there should be no obstruction of the space above the switchboard.

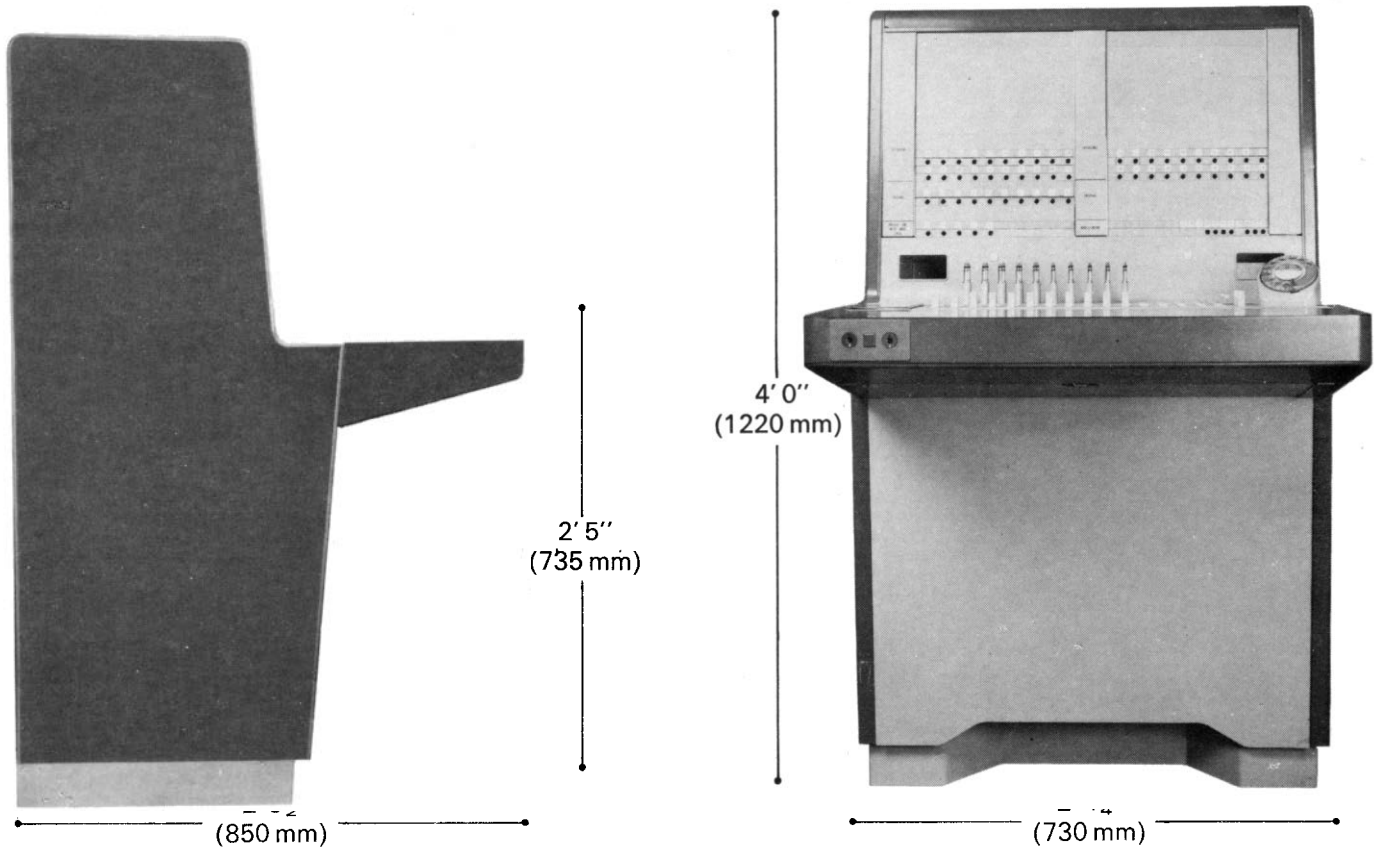
The dimensions and weight of the switchboard position are given overleaf.

The equipment is mains-powered and works from a 3-pin switched socket outlet of at least 13-amp rating provided by the customer.

Most of the equipment is contained inside the switchboard, but the power unit, ringing and signalling units are separate. This equipment is usually wall-mounted in a convenient position near the switchboard. If many signalling units are necessary, the equipment can be floor-standing.

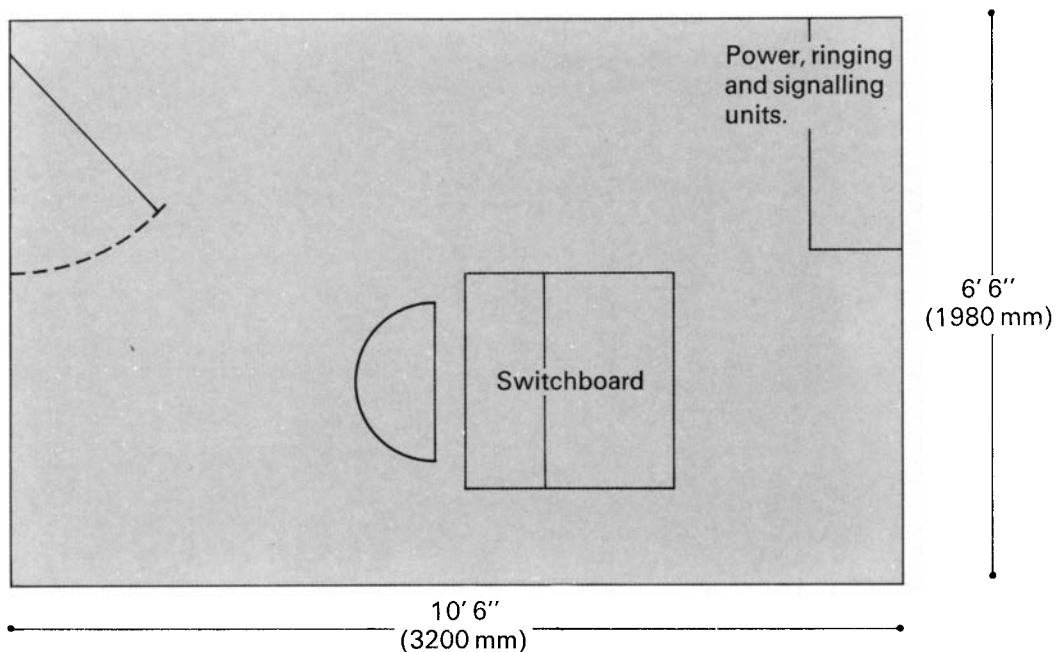
The simplest installation, for example, requires a wall-space of approximately 30" by 30" (750 mm by 750 mm), and stands out about 12" (300 mm).

Dimensions



Weight The switchboard weighs approximately 450 lb (205 kg).

Typical floor plan for the PMBX4



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.

Value Added Tax

From 1st April 1973 value added tax will be payable for telecommunications services and will be added to the total of charges on customers' bills. Rental and connexion charges are quoted in DLC1 the preface sheet for Section C descriptive leaflets.

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