

## PMBX 5+25 panel mounted



This leaflet describes the panel-mounted cordless switchboard which can be fitted into a desk or console provided by the customer.





### Benefits

- Control on use of outgoing exchange lines by extensions.
- Straightforward controls for ease of operation.
- Modern appearance.
- Visual indication on switchboard of calls in progress.
- No separate equipment room required.

### How it operates

Each exchange line, each extension and the operator's telephone, has a signalling lamp with a column of keys beneath it. The keys are used to answer and connect calls.

By pushing keys in the top, second and third rows up or down, or keys in the fourth row up, seven independent connecting circuits can be used to set up seven two-way conversations.

Extensions are called by pressing down the associated extension key in the fourth row.

Night service is provided by connecting each exchange line to an extension and switching on the night service key.



## Facilities

Up to five exchange lines and twenty-five extensions can be connected under conditions where the calling rate from extensions is low.

Extensions can be internal, external or inter-switchboard although those other than internal are limited to twelve. Private circuits can also be connected in place of external extensions.

Extension telephones are provided with dials so that outgoing calls can be dialled direct from each of those extensions when the operator has connected it through to an exchange line.

Internal calls between extensions are connected by the operator.

Each extension telephone has a press-button which can be used to signal the operator while a call is in progress. The operator can then assist or transfer the call to another extension.

The operator can hold an exchange call and speak to an extension without being heard by the person making the incoming call. A glowing lamp reminds the operator that the exchange line is being held.

If an exchange call is received on a line before the operator has been able to disconnect it from a previous call, the new call is automatically intercepted at the switchboard. A lamp glows on the switchboard to warn the operator, and the extension to which the line is still connected is not rung.

Seven separate calls can be in progress at the same time.

The operator can only answer one further call at a time when all seven connecting circuits are in use. This call cannot be connected to an extension unless one of the connecting circuits becomes free.

All calls are signalled with lights on the switchboard.

A buzzer, which operates with the lights, can be switched on or off. It can be set by the installation engineer to give a loud, medium or soft output.

The next free connecting circuit to be used is indicated by the appropriate lamp glowing in a column of "free link" amber lamps down the left hand side of the switchboard.

Power for signal lights, buzzer and bells is obtained from a unit connected to the mains.

If there is a mains failure, exchange calls in progress remain connected. A fresh incoming call on the first exchange line rings the operator's bell. The other exchange lines can each be switched through to an extension so that calls can be made and answered at those telephones. No other calls are possible on telephones which are not connected to an exchange line.

A standby power supply for use in the event of a mains failure, together with a mains-failure warning light arrangement on the switchboard can be provided for an additional charge.

Extension arrangements Plans 1, 1A, 9, 12A, 105, 105A, 107 and 107A can be provided on switchboard extensions.

## General information

Before a customer makes detailed plans to design and construct a console to incorporate this equipment it is essential to get full advice from the Telephone Sales Office.

The design of this console will have to fulfill a number of safety requirements. A safety mounting frame, which must be fitted by the customer to the console before the panel mounted switchboard is installed, together with fitting instructions and drawing, will be supplied soon after an order is placed.

The angle of inclination of the switchboard panel shall not be less than 30° to the horizontal (angles up to 90° may be used). A minimum clearance of 230mm is required beneath the switchboard panel.

In addition to the switchboard and safety frame, an apparatus box, power unit, and an auxiliary unit for each external extension or circuit with special telephone arrangements are provided. Dimensions and weights are given in the table below.

This equipment, in grey metal cases, can be fitted inside the console if there is adequate ventilation. Alternatively, the units can be wall-mounted in any suitable, convenient position, provided that the cable run from the switchboard does not exceed 30.5 metres.

The power unit is connected to a 3-pin socket outlet of at least 2-amp rating, supplied by the customer.

A grey handset is provided for the operator. A grey lightweight headset can also be provided, for a small additional charge.

Tablephones in two-tone grey, two-tone green, ivory, yellow, red, blue, or black can be provided on extensions. If Wallphones are required, the choice of colour is limited to two-tone grey, ivory, or black. This limited colour choice also applies to some extension arrangements.

Trimphones can be provided on most extensions for a small additional rental. There is a choice of three colours – grey, blue and green – each is a dual-tone with the handset in the darker tone.

Self Contained Push-Button Telephones, tablephones with a keypad instead of a dial can be provided on extensions for a connexion charge and an additional rental.

## Dimensions, Space Requirements and Weights

Equipment	Height	Width	Depth	Approximate Weight
Switchboard	457mm	622mm	178mm	14kg
Apparatus box	457mm	603mm	178mm	27kg
Power unit when auxiliary units are provided	457mm	305mm	178mm	24kg
Auxiliary unit	165mm	305mm	178mm	4.5kg

Details of dimensions and weight of the mounting frame will be provided by the Telephone Sales Office.

### **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 or details of any changes in the information in this leaflet since it went to print. The address and telephone number are shown in the preface of your telephone directory.