

# Private Manual Branch Exchange (4+18)



DESCRIPTIVE

C302

PRIVATE MANUAL  
BRANCH EXCHANGES

A compact, cordless switchboard in a modern style approved by the Council of Industrial Design, housed in a grey plastic case, with a matching, two-tone grey, modern telephone for the operator ; a grey or black lightweight headset can be provided if wanted. The switchboard and telephone can go on a desk or table. The extension telephones are modern and can be in any available colour.



## GENERAL INFORMATION

One to four exchange lines and up to eighteen extensions can be provided. The extensions may be internal, external, inter-switchboard or private circuits.

The operator can be recalled from any extension by press-button on the telephone.

Extension telephones can be provided with dials as required so that exchange calls can be dialled direct from these extensions.

Seven connecting circuits enable seven separate calls to be in progress at the same time. A light shows the next free connecting circuit to be used.

An overcall facility enables the operator to answer an incoming exchange or extension call when all seven connecting circuits are in use.

The operator can speak to an extension without being overheard while an exchange call is automatically held. A light reminds the operator that the exchange line is being held.

A second call received on an exchange line before an extension has been disconnected from a previous call on that line is automatically intercepted at the switchboard and a light signal is given. The extension bell does not ring.

Signalling is by lights on all calls.

An alarm buzzer, which operates with the lights, can be switched on or off by means of a key.

A mains unit provides power for signal lights and bells.

In the event of a mains failure exchange calls in progress remain connected; further incoming calls on the first line ring the bell in the operator's telephone; the second, third and fourth lines can be switched through to selected extensions to make or receive calls.

Night service is arranged by connecting the exchange lines to selected extensions and then pressing the night-service key.

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

In STD areas, up to four cyclometer-type

private meters can be mounted on the panel of the switchboard to record STD units actually debited on each exchange line.

A lightweight headset in addition to the telephone can be provided for the operator.

## FACILITIES

This type of apparatus can be used on practically any exchange system.

The switchboard is 22" wide, 9" high and 15" deep and weighs 56 lb.

It operates at 50 volts DC which, together with a ringing supply of 25 cycles a second, is provided by an AC-mains-driven power unit, working from a suitable 3-pin socket outlet supplied by the customer. When in use the power consumption is 50-180 watts for an installation with internal extensions only, going up to 80-320 watts for more complicated installations with external extensions.

The power unit and connexion box are usually attached to the wall in any inconspicuous, convenient position. For the most simple installation this equipment weighs approximately 40 lb; it occupies a wall space 12" wide by 22" high and protrudes 7 $\frac{1}{4}$ ".

When private circuits, inter-switchboard extensions and certain external extensions are provided, a larger power unit weighing 80 lb and one or more auxiliary apparatus units (up to a limit of nine) are necessary. Each unit weighs 10 lb, and is 12" wide, 6 $\frac{1}{2}$ " high and 7 $\frac{1}{4}$ " deep.

The cases of these power and auxiliary units are eggshell-finish elephant grey.

**Rental and connexion charges  
are quoted in the preface sheet**

THE TELEPHONE MANAGER  
WILL GLADLY SUPPLY  
ANY FURTHER INFORMATION

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## GENERAL INFORMATION

One to four exchange lines and up to eighteen extensions can be provided. The extensions may be internal, external, inter-switchboard or private circuits except that external circuits, and circuits with special telephone arrangements, are normally limited to nine.

The operator can be recalled from any extension by press-button on the telephone.

Extension telephones can be provided with dials as required so that exchange calls can be dialled direct from these extensions.

Seven connecting circuits enable seven separate calls to be in progress at the same time. A light shows the next free connecting circuit to be used.

An overcall facility enables the operator to answer an incoming exchange or extension call when all seven connecting circuits are in use.

The operator can speak to an extension without being overheard while an exchange call is automatically held. A light reminds the operator that the exchange line is being held.

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Night service is arranged by connecting the exchange lines to selected extensions and then pressing the night-service key.

Extension arrangements to plans 1, 1A, 2, 4, 9, 12A, 105, 105A, 107 and 107A can be

provided on switchboard extensions.

In STD areas, up to four cyclometer-type private meters can be mounted on the panel of the switchboard to record STD units actually debited on each exchange line.

A lightweight headset in addition to the telephone can be provided for the operator.

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The power unit and connexion box are usually attached to the wall in any inconspicuous, convenient position. For the most simple installation this equipment weighs approximately 40 lb; it occupies a wall space 12" wide by 22" high and protrudes 7¼".

When external circuits and circuits with special telephone arrangements are provided, a slightly larger power unit, weighing 80 lb, is required. An auxiliary unit is also necessary for each of these circuits (limited to nine); each unit weighs 10 lb and is 12" wide, 6½" high and 7¼" deep.

The cases of these power and auxiliary units are eggshell-finish elephant grey.

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