

# Private Manual Branch Exchange (3+12)



DESCRIPTIVE  
C301

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.



## FACILITIES

One to three exchange lines and up to twelve 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.

Five connecting circuits enable five separate calls to be in progress at the same time.

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 and third lines can be switched through to selected extensions to make or receive calls.

Night service is arranged by connecting 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 three 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.

## GENERAL INFORMATION

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

The switchboard is 17" wide, 8" high and 13" deep, and weighs 33 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 40–90 watts for an installation with internal extensions only, going up to 50–180 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 22 lb; it occupies a wall space 12" wide by 18½" high and protrudes 7¼".

When private circuits, inter-switchboard extensions and certain external extensions are provided, a slightly larger power unit weighing 40 lb and one or more auxiliary apparatus units (up to a limit of six) are necessary. 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.

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

THE TELEPHONE MANAGER  
WILL GLADLY SUPPLY  
ANY FURTHER INFORMATION

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## FACILITIES

One to three exchange lines and up to twelve 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 six.

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.

Five connecting circuits enable five separate calls to be in progress at the same time.

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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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 22 lb; it occupies a wall space 12" wide by 18½" high and protrudes 7¼".

When external circuits and circuits with special telephone arrangements are provided, a slightly larger power unit, weighing 40 lb, is required. An auxiliary unit is also necessary for each of these circuits (limited to six); 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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