

Key and Lamp units

August 1973

Descriptive
Leaflet

DLE 580

Key and lamp units are flexible switching systems which offer many opportunities for increasing office efficiency.

They provide a simple means of connecting any one of a number of telephones to any one of a group of circuits. These can be exchange lines, extensions, or private circuits.

The units are particularly useful where orders are taken by telephone, for example, employment agencies, travel and ticket agencies, and wholesalers.

They can also be used by groups within an organisation to give joint use of a number of lines.





Description

Two sizes of key and lamp unit can be provided. Up to ten circuits can be connected to the smaller unit and up to twenty to the larger. Each circuit has an associated signal lamp and a key with three positions. There is also a circuit identification strip and a key-bar.

The units are normally provided in grey plastic cases, but a special version of the smaller size can be fitted into the customer's own desk or console – this would require an opening 190mm by 98mm ($7\frac{1}{2}$ " by $3\frac{7}{8}$ ") with a space of at least 67mm ($2\frac{1}{2}$ ") behind it in the desk or console. The larger size is not suitable for fitting in this way.

The units can be linked to cater for a larger number of circuits. Two or more units can be provided for each user.

Each circuit is normally connected to every unit, but special distribution arrangements are possible.

How the Units are operated

The uses of the key positions are:—
 up — 'normal'
 middle — 'hold'
 down — 'speak'.

An incoming call on any circuit flashes a signal lamp on every unit to which the line is connected, and operates a buzzer or bell alarm.

The alarm can be switched off to reduce the noise level.

The call is answered by any member of the group moving the appropriate key to the 'speak' position. This stops the alarm, and changes the flashing light to a steady glow on all the units to show that the line is engaged.

The call can be held by moving the key to the 'hold' position while an enquiry is made, or another member of the group takes over the call. The caller cannot hear the enquiry and the signal lamps continue to glow steadily.

When the call ends the key is restored to the 'normal' position, and all signal lamps for that circuit go out.

An outgoing call on an exchange line is made by moving the key of a free line to the 'speak' position and dialling the number required.

Outgoing calls on certain private circuits or switchboard extensions are obtained by moving the key to the 'speak' position and pressing the long key-bar. This bar is also used for operator recall and transfer facilities when the circuits are connected to a switchboard.

The signal lamps on all units to which a line is connected will glow steadily while an outgoing call is in progress.



Facilities

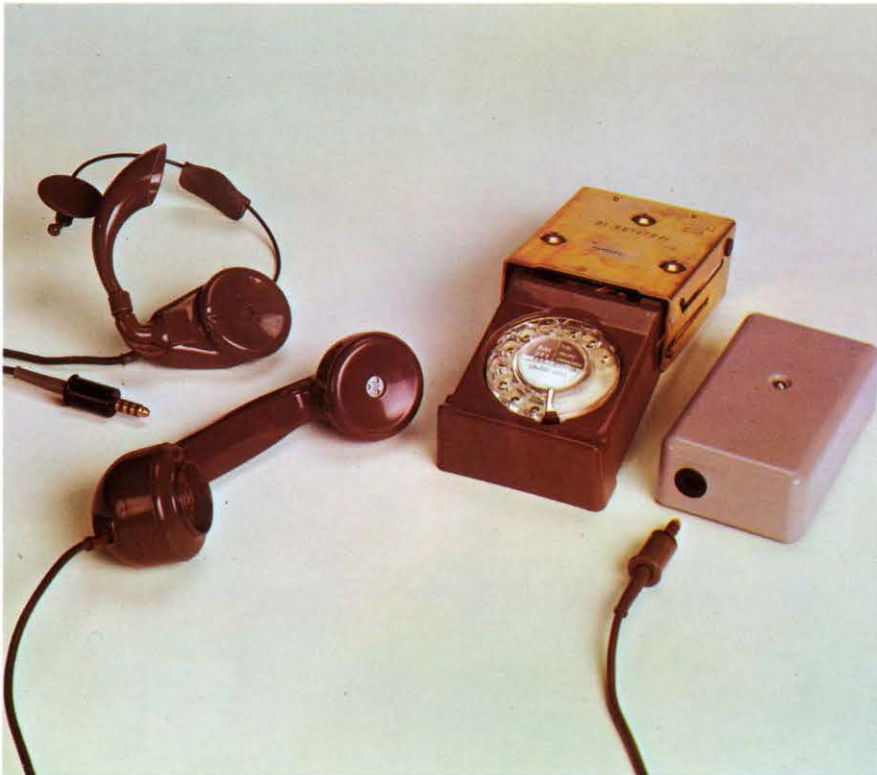
A large volume of calls can be handled simultaneously with minimum delay.

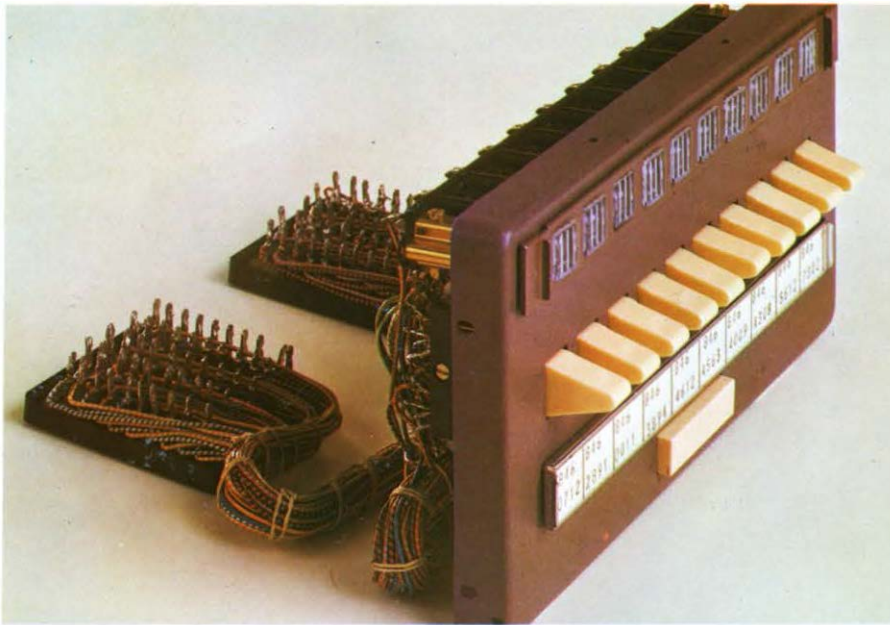
One person may be able to handle all the calls during quiet times, but when calls increase other units can be brought into use.

In general offices, each member of the staff can have access to every circuit, and so answer calls without having to move from one desk to another.

Tablephones, headsets, handsets or pendant telephones, can be used with Key and Lamp Units. A plug and socket connection is used for headsets or handsets. When a separate telephone dial is required it can either be mounted in a small drawer beneath the desk top, or fitted on or in the working surface.

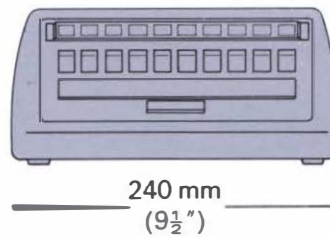
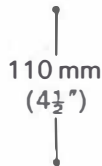
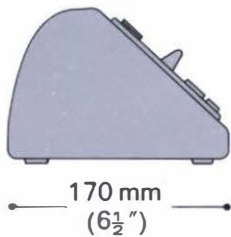
To guard against loss of signal lights and alarms due to mains failure, stand-by power arrangements can be provided for an additional charge.



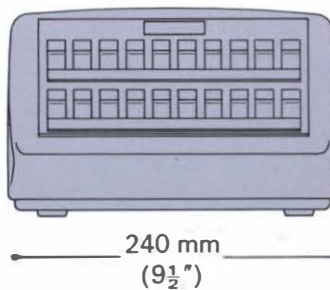
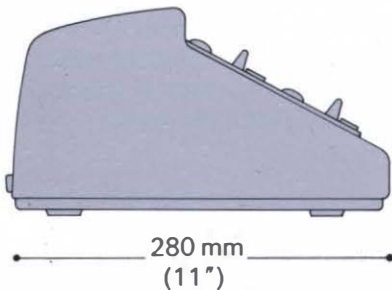


Dimensions and weights

10-way key and lamp unit
weight 2kg (5lb)



20-way key and lamp unit
weight 3.6 kg (8lb)



Power Unit	355 mm by 305 mm by 190 mm (14" by 12" by 7 1/4")	18.1kg (40lb)
Auxiliary apparatus unit	480 mm by 135 mm by 135 mm (19" by 5 1/4" by 5 1/4")	8.1kg (18lb)
Supplementary unit } Lamp flashing unit }	480 mm by 100 mm by 135 mm (19" by 3 1/2" by 5 1/4")	5.8kg (13lb)

Other uses of key and lamp units

Extensions from telephones in other offices can be terminated on a key and lamp unit so that they may be readily answered when the normal users are absent.

Broadcasting facilities can be provided where it is necessary to send the same information simultaneously to several places. When used in this way the units are particularly suitable for racing information services, news agencies and similar organisations.

Other arrangements of key and lamp units are possible, designed to meet the particular needs of the customer.

General information

Each installation requires a power unit. Power is drawn from a 3-pin mains socket outlet of at least 5-amp rating, provided by the customer.

An auxiliary apparatus unit is required for the first five circuits (exchange lines and/or extensions) regardless of the number of circuits provided. A supplementary unit is required for each five, or part of five, additional circuits provided.

When private circuits are fitted, a lamp flashing unit is provided together with one or more of the supplementary units mentioned above.

The dimensions and weights quoted below are approximate; certain installations may require additional or alternative equipment.

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.

Rental and connexion charges are quoted in DLE 1 the preface sheet for section E 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.