

22 OCT 1981

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B MARKETING COMMERCIAL
4 Facilities & Apparatus
N0011

PROTEUS INTERNAL TELEPHONE SYSTEM

1 Proteus is an Internal Telephone System which has no connexion with the public switched network. It is available in two sizes:-

Proteus-24 - 24 extension capacity

Proteus-64 - 64 extension capacity

2 **SYSTEM DESCRIPTION** The system is based on a Control Unit which utilises solid-state technology and offers modular growth up to the maximum capacity of each version through the fitting of additional Apparatus Slide-in Units (ASUs).

The Control Unit comprises: either a 24-way or 64-way backplane, an integral power unit, one Common Control ASU, Dual Call-Connect ASUs (one for every 16 extensions or part thereof) and Line Extension ASUs (one for every 8 extensions or part thereof).

The case is constructed of anodised aluminium; the face panel is of bright matt-finished metal, the sides and top are covered in fawn PVC. All edges are of bright metal. On the left side of the face-plate is a mains indicator lamp.

The mains lead and line cords are fed from the rear of the unit and have a free length of 3 metres. The line cords terminate on a standard Box Connection, the size of which depends upon the size of the system.

The overall dimensions of the Control Unit are 472 mm wide, 276 mm high and 353 mm deep, and the fully-equipped weight is about 26 kg.

The maximum power consumption is 500 watts, and the customer must provide a 3-pin 13 amp socket outlet adjacent to the unit. In the event of a power failure, the system is inoperative.

Extension telephones must signal 10 pps - see paragraph 6(a).

3 **TRAFFIC CAPACITY** One Connecting Circuit is provided per 8 extensions or part thereof, thus giving a minimum grade of service of 25%. This capacity is reduced when a conference call is in progress - see paragraph 6(e).

4 **EXCHANGE NUMBERING** Each Telephone Area will use the hypothetical exchange name "PROTEUS" for all installation, and each Area will be allocated a block of numbers commencing with 1000 and ending with 1999. The first Proteus system in each Area will be designated "Proteus 1000", with subsequent systems being numbered consecutively.

5 **NUMBERING RANGE** Extensions are wired radially from the Control Unit using single pairs of wires. The numbering range is:

00-17	} Proteus-24 and Proteus-64
10-17	
20-27	

30-37	} Proteus-64 only
40-47	
50-57	
60-67	
70-77	

In order to maximise the use of the ASUs, numbers should be allocated in the above sequence.

6 EXTENSION FACILITIES

(a) A wide range of extension telephones with 10 pps signalling, and associated terminal equipment, can be fitted as follows:

- standard dial telephone
- Wallphone - dial and press-button
- Self-contained Keyphone
- Trimphone
- Press-button Trimphone
- Compact
- Special Range Telephones (subject to the limitations of specific SRTs)
- Loudspeaking telephones - 3, 4D and 4E
- Amplifying Handset (Handset 14A)
- Lamp-signalling Handset (Handset 7)
- Speakersets 1 and 2

(b) Secrecy on all calls.

(c) Plan extension capability on extensions - Plan 1, 1A, 4, 107 and 105 (the "B" end extension(s) on Plan 107 and 105 must be internal to the main).

(d) Incoming call-barring on specified extensions.

(e) Conference:-

Up to 4 (Proteus-24) or 8 (Proteus-64) conference calls can be held at the same time, depending on the number of call-connect circuits provided.

Up to 6 extensions on any one call.

(As a conference call engages a connecting circuit, every conference in progress reduces the system traffic capacity for other extension-to-extension calls).

(f) External extensions on local wiring up to a maximum of 1.5 km (just under one mile) in route length can be provided. Longer distances may be possible subject to standard Sales plant enquiry practices.

7 SYSTEM OPERATION

To make a call - lift handset, and dial or key the extension number required.

To answer - lift the handset and speak.

To set up a Conference Call - call the first extension in the usual way, ask the user to hold, then continue calling other extensions in turn.

8 OPERATING INSTRUCTIONS An extension user's pack comprising the following is available:

(i) CI40 - a card measuring approximately 102 mm by 203 mm which contains the simple operating instructions;

(ii) CI41 - an identically sized card on which the holder can note the names of other extension users against the appropriate extension number;

(iii) CI39 - a yellow folded plastic wallet, with "Proteus" and BT logo in blue, which will hold the 2 cards. The wallet is some 215 mm by 215 mm when open.

BTHQ/ME/BS4.2.1.3

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