

Datel 200 Service

This is a low speed data transmission service which is equally suited to both large and small organisations, particularly where bureau type activities are involved.





MODEM AND LINE UNIT WITH ASSOCIATED TELEPHONES

Description

The Datel 200 service enables data to be transmitted asynchronously at speeds up to 300 bits per second (bit/s), over the public switched telephone network (PSTN) or over private circuits. The hardware for the service is provided by a modulator/demodulator unit (modem unit) and a line switching unit. The modem unit translates information received from Data Terminal Equipment into signals that are suitable for transmission over telephone circuits; the line switching unit provides the means of associating the modem with either private circuits and/or exchange lines. The modem has been designed to meet the needs of both single and multiple installations. For "table top" situations the modem is housed in a low profile case, and a flip down cover gives easy access to controls. For multiple installations the modules of the modem can be readily installed in a Post Office Datel Network Control System (DNCS), offering economic use of floor space.

Alternatively, a miniaturised modem is available, which is incorporated into a plinth under the telephone. This may be used for applications where the full capability of the standard modem is not required.

The service is available with either 2-wire exchange lines or 2-wire private

circuits; PSTN standby facilities are also available: transmission is in duplex mode.

Other features and options of the service include:-

- Automatic answering in accordance with CCITT Recommendation V25.

- Automatic origination of calls.

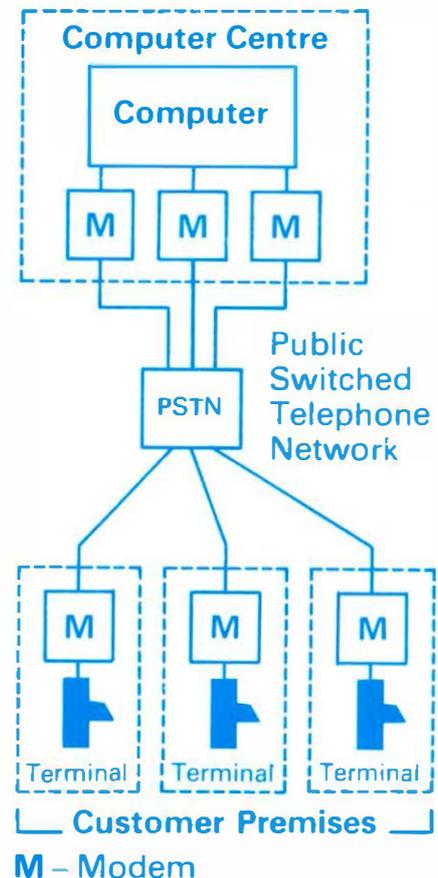
- Call and Answer mode working.

- Speech and signalling on private circuits.

- Complies with CCITT Recommendations V21 and V24.

Some existing installations may feature a previous type of modem.

Diagram of System





MINIATURISED MODEM

How it operates

Before data transmission can take place it is necessary to connect the modem to line; there are 3 methods of achieving this connection:-

- by push-button on the telephone;
- by control from the Data Terminal Equipment;
- by a combination of the previous 2 methods.

Terminal equipment suppliers will advise on the method of connection most suitable for their equipment.

The Post Office will supply an Operating Handbook with each installation which will detail call set up and call termination procedures.

Facilities

The Datel 200 service has been designed to provide a range of facilities to meet system requirements for both private circuit and PSTN operation.

The service is particularly suited to time-sharing applications, where access to a computer is required by a large number of low speed terminals. In many cases Datel 200 is used to connect a simple keyboard and printer to a computer. For such situations the miniaturised modem has been developed, providing only those facilities which are needed for this method of working. Where several modems are required at one location such as computer centres, racks can be provided for an additional charge, to house standard modems.

Although the PSTN is normally used for this service, private circuits sometimes provide an economical alternative. In the latter instance, an exchange line may also be rented so that in the event of private circuit failure, the system remains operational. The exchange line can also be used to provide remote test access to the modem from the Post Office Datel Test Centre to assist in fault diagnostic procedures.

To help in the localisation of faults a loop test function is included in the modem. This enables the customer to loop the modem at the DTE interface in either Call mode or Answer mode.

The transmission system employed in the Datel 200 Service complies with the latest CCITT recommendations.

The miniaturised modem is compatible with the standard modem; it fits under a standard telephone and can be used over the PSTN or a private circuit. On any telephone connection using Datel 200, only one end may be a miniaturised modem. This end will normally originate the call. In many cases it is possible to power this modem from the telephone line.

Technical Information

Modulation

Frequency shift keying

Mode

Full duplex

Line

2-wire PSTN or 2-wire private circuit

Data-rate

Up to 300 bit/s

Operation

Asynchronous

Interface connector

25 way D-type connector

Power supply (standard modem)

200-250 Volts AC: 50 Hz \pm 10%

Maximum temperature

30 C on all sides of unit

Dimensions and Weights

	Standard Modem	Miniaturised Modem
Width	232 mm	152 mm
Length	409 mm	248 mm
Height	60 mm	53 mm
Weight	7 kg	0.9 kg

Note: the miniaturised modem is supplied with a standard dial telephone fitted on top.

General

Maintenance charges are included in the tariff and apply nationally. Our special services sales representative will be glad to advise on specific requirements.

Datel Sales Enquiry Points: Telephone Numbers

Aberdeen

Aberdeen (0224) 24009

Bedford

Bedford (0234) 52241

Belfast

Belfast (0232) 33576

Birmingham

021-262 2757

Blackburn

Blackburn (0254) 666387

Bournemouth

Bournemouth (0202) 24990

Bradford

Bradford (0274) 20974

Brighton

Brighton (0273) 202090

Bristol

Bristol (0272) 296507

Cambridge

Cambridge (0223) 61816

Canterbury

Canterbury (0227) 60034

Cardiff

Cardiff (0222) 24749

Chester

Chester (0244) 374250

Colchester

Colchester (0206) 41331

Coventry

Coventry (0203) 22905

Dundee

Dundee (0382) 302201

Edinburgh

031-345 4480

Exeter

Exeter (0392) 75030

Glasgow

041-220 2899

Gloucester

Gloucester (0452) 25451

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Aldershot (0252) 27546

International

01-432 5407

Lancaster

Carlisle (0228) 23224

Leeds

Leeds (0532) 465893

Leicester

Leicester (0533) 534111

Lincoln

Lincoln (0522) 26657

Liverpool

051-229 3961

LONDON

Centre

01-437 8060 Ext 352

City

01-921 8754

East

01-553 7228

North

01-340 8060 Ext 7143

North Central

01-829 4405

North West

01-864 4347

South

01-760 7400

South Central

01-261 4622

South East

01-290 2494

South West

01-879 2444

West

01-579 8771

MANCHESTER

Central

061-863 6438

North

061-863 8261

South

061-863 5478

Middlesbrough

Middlesbrough (0642) 248636

Newcastle upon Tyne

Newcastle (0632) 613364

Norwich

Norwich (0603) 25230

Northampton

Northampton (0604) 39171

Nottingham

Nottingham (0602) 410384

Oxford

Oxford 0865) 812336

Peterborough

Peterborough (0733) 69664

Plymouth

Plymouth (0752) 64539

Truro (0872) 74224

Portsmouth

Portsmouth (0705) 813411

Preston

Preston (0772) 50035

Reading

Reading (0734) 52598

Scotland West

041-242 2068

Sheffield

Sheffield (0742) 732377

Shrewsbury

Shrewsbury (0743) 3388

Southampton

Southampton (0703) 823270

Southend

Southend (0702) 47099

Stoke-on-Trent

Stoke (0782) 28296

Swansea

Swansea (0792) 52870

Taunton

Taunton (0823) 87172

Tunbridge Wells

Tunbridge Wells (0892) 24511

West Midland

021-262 2609

York

York (0904) 57220

For any further information or details of any changes in the information in this leaflet since it went to print, contact the Datel Sales Enquiry Point of your local Telephone Sales Office. The telephone number is shown above. If you have difficulty obtaining information from the numbers listed, please call the operator and ask for Freephone 2170. Alternatively, call 01-432 1813.

Information on a wide range of our services and apparatus is contained in the Green Pages section of most Telephone Directories.

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.