Series Four

V21/V23, V22 & V22 bis
INTELLIGENT DATA MODEMS

SERIES FOUR 2123S ...V21/V23
SERIES FOUR 1200S ...V21/V23,V22
SERIES FOUR 2400S ...V21/V23,V22,V22bis

* ALL MODELS HAVE V21 (300 BAUD) AND V23 (1200/75 - 75/1200 BAUD) STANDARD
* SERIES FOUR 2123S UPGRADEABLE TO V22 (1200/1200 BAUD) OR V22bis (2400/2400 BAUD) OPERATION AS FACTORY FITTED OPTIONAL UPGRADE
* INTELLIGENT MICRO PROCESSOR CONTROLLED
* HAYES COMPATIBLE
* AUTO DIAL (PULSE & TONE)
* AUTO ANSWER (V25)
* TELEX TYPE PROGRAMMABLE ANSWERBACK FACILITY
* PARALLEL PRINTER PORT
* 64 ENTRY TELEPHONE NUMBER STORE WITH BATTERY BACK UP
* SIMPLE TO USE, BUILT-IN HELP PAGES
* BAUD RATE SCANNING ON DIAL AND ANSWER
* AUTOMATIC TERMINAL BAUD RATE SENSING
* FULL SPEED BUFFERING

* ALLOWS CONSTANT TERMINAL SPEED OPERATION
* CALL PROGRESS MONITORING INCLUDING DIAL, RING AND ENGAGED TONE DETECTION
* INTERNAL LOUD SPEAKER WITH SOFTWARE CONTROL OF VOLUME
* BUILT-IN REAL TIME CALENDAR CLOCK
* 32 CHARACTER LCD DISPLAY
* 10 RS232 AND MODEM STATUS LIGHTS
* MODEM CONFIGURATION WRITE BACK FACILITY
* CARRIER STRENGTH INDICATOR
* STANDARD D TYPE 25 WAY RS232 SOCKET
* BELL TINKLE SUPPRESSION
* EXTERNAL POWER SUPPLY UNIT
* BABT APPROVED
* LEASED LINE VERSIONS AVAILABLE

PACE

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Series Four is a highly sophisticated, yet simple to use range of intelligent data modems, Hayes compatible with an extended Hayes 'AT' command set.

There are three models in the range, suitable for use on any computer with an RS232 serial interface, all of which will enable the access of viewdata systems such as Prestel, ASCII based electronic mail systems such as One to One, Telecom Gold, Easylink etc., enabling Telex and electronic mail messages to be sent and received, and the fast transfer of data between computers etc.

In terms of baud rates, all Series Four modems include V21 (300/300 baud) and V23 (1200/75 and 75/1200 baud) as standard. The base model, Series Four 2123S operates at these standard baud rates. For higher speed applications, the Series Four 1200S is a Tri speed modem which includes V22 (1200/1200 baud) and the Quad mode version, the Series Four 2400S in addition, incorporates V22bis (2400/2400 baud).

All models will automatically recognise the terminal baud rate and data format, and adjust themselves accordingly. They can also present a constant speed interface to the terminal i.e. terminal to modem communication can take place at 1200/1200 baud whilst the modem to host communication is carried out at 1200/75 or even 300/300 baud. As a result of this, the user does not have to continually adjust the terminal baud rate for use with different services. During dialling or answering, Series Four will determine the baud rate of the host system and connect accordingly.

A distinctive feature of Series Four range is the inclusion on the front panel of a 32 character liquid crystal display and asociated touch buttons. These buttons allow the user to scroll through various commands and settings indicated on the LCD and thus operates the modem manually. Such operations include dialling, settings and display of 'S' registers etc. Because the Series Four Modems include a real time clock, the time can also be displayed and adjusted manually.

Numbers for auto dialling can be entered at the terminal or selected from the modems own store of 64 user programmable, battery backed number/services store. These numbers are entered by the user along with a description of up to 16 characters. Once entered, they can be displayed via the LCD and dialled either from the front panel buttons or in the normal way under software control.

Call progress monitoring during dialling is provided by a combination of the internal speaker and a series of status messages which are relayed to the terminal in simple, easy to understand messages. Tones recognised include dial, ring, engaged and number unobtainable.

Series Four modems are supplied with factory default configuration values. These can be altered by the User and the alterations stored for future use so that the modem may be powered up in a particular mode.

Automatic answering follows the V25 protocols and uses the standard 'Hayes' S Register to enable and disable the facility.

The addition of a parallel printer port and real time calendar clock, mean that an incoming message can be routed directly to a printer (connected to Series Four) and stamped with the date and time independently of the host computer. The further addition of a user programmable 'Telex' type answerback code, ensures that messages have been sent and received by the correct recipient, thus turning Series Four into a true Telex type facility when using the services of an electronic mail company such as One to One or Telecom Gold.

Among the many other features of Series Four are a ten segment carrier strength indicator, ten LED indicators to show the status of the modem including power (ON), carrier detect (CD), Auto Answer (AA), High Speed (HS) etc., etc. There is a re-set switch and rear panel connections for RS232, telephone and external plug mounted power supply. Series Four is supplied in a stylish, modern case with comprehensive installation and reference guide and is subject to a full warranty.

Further specification sheets are available on request for the whole range of Pace modems which include: Nightingale, Linnet PC Card modem, Series Four 2123S, 1200S, 2400S.

TECHNICALLY SPEAKING

Dimensions: W. 300mm D. 222mm H. 50mm
Power Supply: External, plug mounted
Interface: RS232 via 25-way 'D' socket
Operating Standards: 2123S - V21, V23, 1200S - V21, V23, V22, 2400S - V21, V23, V22 & V22 bis
Baud Rates: 2123S - 300/300 RX1200/TX75, RX75/TX1200 1200S - 300/300, RX1200/TX75, RX75/TX1200, 1200/1200 2400S - 300/300, RX1200/TX75, RX75/TX1200, 1200/1200, 2400/2400
Connections: RS232 - 25-way 'D' socket, Line - Lead terminated with type 600 modular plug, Telephone - Modular socket, Printer - 20-way DIL parallel, Power - 5-way, 240° DIN

Configuration: Automatic detection of host and terminal baud rates
Dial Method: Pulse (loop disconnect) or Tone (DTMF)
Tone Recognition: Dial, ring, engaged and number unobtainable tones
Call Progress: Software controlled audio monitor and 'Hayes' result codes.
Auto Answer: CCITT V25 protocols
Status LED's: Power, On-Line, Carrier Detect, TX, RX, Auto-Answer, DTR, RTS, CTS, High speed
Memory: 8K RAM (battery backed) for up to 64 telephone numbers/descriptions, and configuration profile.

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