

OYSTER



The versatile alternative

- Light, convenient, totally portable
- Emulates common VDU terminals
- 80-character line, full page memory
- On-board modem option
- 40 hours operation from internal batteries
- Printer output

The G R Electronics Oyster terminal gives the power of a full-size VDU in a package half the size of a briefcase and weighing less than 2.5kg. It incorporates a standard-sized professional keyboard and a 16-line LCD display, giving access to a full 80 column x 24-line page of data.

Oyster sends and receives the normal 128 character ASCII set, responds to the standard control codes and offers editing functions, including those required by the 'Wordstar' word processing package.

The latest high contrast LCD technology is used to give a clear, legible display, with fast update circuitry removing the delay suffered by other large LCD devices. The entire contents of the 80 x 24 memory can be stepped

through the display under manual control, or scrolled smoothly, pixel by pixel under keyboard control at slow, medium and fast speeds.

Oyster emits no harmful radiation and is less fatiguing to use for long periods than a conventional CRT. Keyboard and display are close together, limiting eye movement, and the LCD is clearly visible in a wide range of light conditions, reducing eyestrain. Viewing angle and display intensity are keyboard-adjustable to give optimum results for individual users.

The Ni/Cd battery pack, with built-in charger provides up to 40 hours continuous operation, and the unit can also be powered from mains, via an adaptor, or from any external 12-20V DC or AC supply.

Oyster is compatible with any RS232C variant, it will work with or without handshaking. A full page of set-up data allows the user to match the signalling

protocols of the host computer, including data word arrangement, XON/XOFF and handshaking. Once selected these settings are maintained in battery-backed memory until revised. Provision is also made for synchronous/asynchronous communication.

A split baud rate facility makes Oyster compatible with most electronic mail and data base services, which can be accessed from a telephone box with the aid of an acoustic coupler.

An integral V23 modem is available (BAPT approval applied for)

Typical Applications

- Test and debug tool for service engineer
- Mobile communications device (with coupler)
- Remote access to databases
- Auxiliary terminal for multi user micro

... and anywhere a conventional terminal is too bulky, too heavy or too power-hungry



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FEATURES AND SPECIFICATIONS

SET-UP MODE

Set-up employs a full screen display showing parameters which the user can select simply by the cursor keys. The selected parameters are retained in memory even on switch off.

CONTROL CODES & ESCAPE SEQUENCES

The following are functions that are available via Control Codes or Escape Sequences.

Bell	Insert Line
Cursor Left	Delete Line
Cursor Right	Test
Cursor Down	Cursor Address
Cursor Up	Dial
Line Feed	Print Screen
Carriage Return	Terminal Status
Home Cursor	What are you
Clear Screen	Save Cursor Position
Erase to end of Line	Restore Cursor Position
Erase Line	Select Graphics Character Set
Erase Screen	Select Normal Character Set

These are either Lear Siegler or VT100 compatible (selectable). Not all functions are available in each mode.

LOCAL CONTROLS

OPERATION	FROM KEYBOARD
Set-up mode	Break
Terminal reset	SHFT-CTRL-Break
Lighten display	CTRL- (Cursor down)
Darken display	CTRL- (Cursor up)
Window to bottom of page	SHFT- (Cursor right)
Window to top of page	SHFT- (Cursor left)
Window down one line	SHFT- (Cursor down)
Window to cursor position	SHFT- (Home)

CONNECTIONS (Serial Port)

PIN	I/O	FUNCTION
1		Chassis ground
2	0	T/X transmit
3		R/X receive
4	0	RTS request to send
5		CTS clear to send
6		DSR
7		Signal ground
9		+5V supply when switched to Ext.
15		TSET linked to 17
17		RSET linked to 15
20	0	DTR data terminal ready
24	0	TSET

SPECIFICATION

Display	LCD 80 characters x 16 lines
Viewing area	238mm x 70mm
Pixels (dots)	480 x 128
Character set	128 ASCII - 96 displayed
Character field	5 x 7 dots
Character matrix	6 x 8 dots
Scrolling	smooth - 1 dot/0.2 secs medium - 1 dot/0.1 secs. fast
Cursor	Steady block
Temperature	-25°C to 55°C storage 0°C to 50°C operating
Keyboard type	low profile
Layout	QWERTY
Cursor controls	up, down, left, right & home
Set-up mode	interactive, non-volatile
Internal memory size	10K RAM, 8K ROM
Microprocessor	NSC800
Transmission format	serial ASCII, RS232C
Baud rates	75 to 19200 in standard steps
Word structure	1 start, 7 data, parity and stop bits
Stop bits	1 or 2
Parity	odd, even, mark, space or none
Busy	send X-OFF (DC3), X-ON (DC1) or DTR to host on busy/ready
Physical dimensions	368mm x 183mm x 80mm
Weight	2.4 Kgm
Case material	ABS
Case colour	mushroom
Power: Charging	10-20V AC or DC, 200mA
Mains	through adaptor
Dissipation	40mA @ 5V average
Battery run time	min. 24 hours, average 40 hours
Low indication	audible tone every 4 secs.
Charge retention	several months.

OPTIONS

Modem	an integral V23 modem with autodial
Printer	standard unit will work to any serial device, preferably self-powered, e.g. Epson P40 or P80

SELF TEST

At power-on a full self-test of the internal RAM is initiated automatically



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