

Farnell Order Code 139-890

Function

The unit is designed to interface between an RS232 port and a standard LCD display module based on the Hitachi HD44780 controller. Control codes are interpreted while standard ASCII characters are passed through to the display.

Switch Settings

Switch settings are read on power up only. Cycle power to read new settings.

1	2	3	4	5	6	7	8	Function
1	1							1200 baud
0	1							2400 baud
1	0							4800 baud
0	0							9600 baud
		1	1					1 line
		0	1					2 lines
		1	0					4 lines
		0	0					4 lines
				1	1	1		8 characters
				0	1	1		16 characters
				1	0	1		20 characters
				0	0	1		28 characters
				1	1	0		40 characters
							0	test mode

Control Codes

^A	01h	Clear Display
^B	02h + n	Clear line (n = 0-3)
^C	03h + xx	Start line 1 plus xx
^D	04h + xx	Start line 2 plus xx
^E	05h + xx	Start line 3 plus xx
^F	06h + xx	Start line 4 plus xx
^G	07h	Cursor On
^H	08h BS	Destructive backspace
^I	09h	Cursor Off
^J	0Ah LF	Goto start of next line
^L	0Ch FF	Clear Display
^M	0Dh CR	Return to start of same line

Where xx is the position on the line

In test mode, version information is sent to display and switch settings sent to host at selected baud rate.

LCD connections

Comms Interface

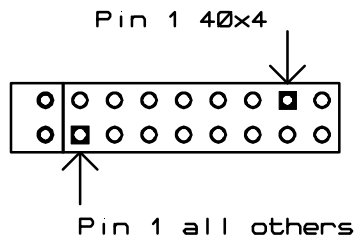
RS232 data in J1 – 3 ground J1 - 5

Power Input

range +9 to +20 volts

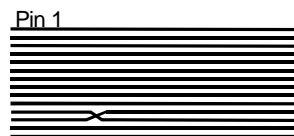
LCD Interfacing - J3

NOTE - remove LK1 for use with VF display modules



Pin	Function	Pin (40x4)
	E2	16
		15
1	Vss	14
2	Vdd	13
3	Contrast	12
4	RS	11
5	R/W	10
6	E	9
7	DB0	8
8	DB1	7
9	DB2	6
10	DB3	5
11	DB4	4
12	DB5	3
13	DB6	2
14	DB7	1

Cable connection for some 40x4 display modules – see manufacturers data sheet for pinout



LCD MC2 DISPLAY