
WriteCmdXLCD

Function:	Write a command to the Hitachi HD44780 LCD controller.																										
Include:	xlcd.h																										
Prototype:	void WriteCmdXLCD(unsigned char <i>cmd</i>);																										
Arguments:	<i>cmd</i> Specifies the command to be performed. The command may be one of the following values defined in xlcd.h: <table><tr><td>DOFF</td><td>Turn display off</td></tr><tr><td>CURSOR_OFF</td><td>Enable display with no cursor</td></tr><tr><td>BLINK_ON</td><td>Enable display with blinking cursor</td></tr><tr><td>BLINK_OFF</td><td>Enable display with unblinking cursor</td></tr><tr><td>SHIFT_CUR_LEFT</td><td>Cursor shifts to the left</td></tr><tr><td>SHIFT_CUR_RIGHT</td><td>Cursor shifts to the right</td></tr><tr><td>SHIFT_DISP_LEFT</td><td>Display shifts to the left</td></tr><tr><td>SHIFT_DISP_RIGHT</td><td>Display shifts to the right</td></tr></table> Alternatively, the command may be a bitmask that is created by performing a bitwise AND operation ('&') with a value from each of the categories listed below. These values are defined in the file xlcd.h. Data Transfer Mode: <table><tr><td>FOUR_BIT</td><td>4-bit Data Interface mode</td></tr><tr><td>EIGHT_BIT</td><td>8-bit Data Interface mode</td></tr></table> Display Type: <table><tr><td>LINE_5X7</td><td>5x7 characters, single line</td></tr><tr><td>LINE_5X10</td><td>5x10 characters display</td></tr><tr><td>LINES_5X7</td><td>5x7 characters, multiple lines</td></tr></table>	DOFF	Turn display off	CURSOR_OFF	Enable display with no cursor	BLINK_ON	Enable display with blinking cursor	BLINK_OFF	Enable display with unblinking cursor	SHIFT_CUR_LEFT	Cursor shifts to the left	SHIFT_CUR_RIGHT	Cursor shifts to the right	SHIFT_DISP_LEFT	Display shifts to the left	SHIFT_DISP_RIGHT	Display shifts to the right	FOUR_BIT	4-bit Data Interface mode	EIGHT_BIT	8-bit Data Interface mode	LINE_5X7	5x7 characters, single line	LINE_5X10	5x10 characters display	LINES_5X7	5x7 characters, multiple lines
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Remarks:	This function writes the command byte to the Hitachi HD44780 LCD controller. The LCD controller should not be busy when this operation is performed – this can be verified using the BusyXLCD function.																										
File Name:	wcmdxlcd.c																										
Code Example:	<pre>while(BusyXLCD()); WriteCmdXLCD(EIGHT_BIT & LINES_5X7); WriteCmdXLCD(BLINK_ON); WriteCmdXLCD(SHIFT_DISP_LEFT);</pre>																										

putcXLCD

WriteDataXLCD

Function:	Writes a byte to the Hitachi HD44780 LCD controller.
Include:	xlcd.h
Prototype:	void WriteDataXLCD(char <i>data</i>);
Arguments:	<i>data</i> The value of <i>data</i> can be any 8-bit value, but should correspond to the character RAM table of the HD44780 LCD controller.
Remarks:	This function writes a data byte to the Hitachi HD44780 LCD controller. The LCD controller should not be busy when this operation is performed – this can be verified using the BusyXLCD function. The data read from the controller is for the character generator RAM or the display data RAM depending on the previous SetRamAddr function that was called.
File Name:	writdata.c