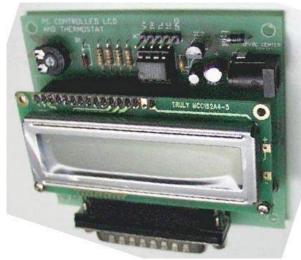
title Page 1 of 1

## TW-DIY-5134

The aim of this kit is to show how to use a 16x2 alphanumeric Liquid Crystal Display (LCD) with a PC. First we show how to connect it to the parallel port and echo and handle keyboard input. Then we show how to use the LCD to display temperature from a DS1620 Digital Thermometer/Thermostat chip and set the HI & LO triggerpoints in it. All C source code is provided.



zoom photo

## Introduction to LCD's Kit - DIY

Learn how to connect a 2x16 LCD to a PC parallel port. First this kit will show you how to write keystrokes from the PC keyboard to display on the LCD. It will show you how to process this data (rotate the string left and right.) All the code is provided. Second, there is an on-board DS1620 to measure temperature. The temperature is displayed in F or C. Just press a button to display either. With the DS1620 you may set breakpoints to turn a thermostat on/off. We provide all the code to do this. Once the DS1620 is programmed it may be removed and placed in another device for temperature control. Many web references are provided.

•	PARTS LIST - KIT 134
	Resistors (0.25W carbon)
	10KR1-4
	10K trimpotVR1
	Capacitors
	100nF monobloc23 1
	10uF 25V electrolyticC2 1
	100uF 16\ electrolyticC1
	Semiconductors
	1N4004D2
	1N4148D1D1
	78L05IC21
	+5V regulator, TO-92 package
	DS1620IC1
	Digital Thermometer and Thermosta Liquid Crystal DisplayLCD 16 x 2, no b/l 1
	Miscellaneous 2.5mm DC jack
	PCB mounting D29 connector1
	PCB mounting, right-angle, male 5 pin SIL headerX3
	8-pin IC socketfor IC1
	14-pin SIL socketfo LCD1
	14-pin SIL headerfo LCD1
	Screw, 2.6mm x 18mm long2 Nut 2.6mm . 6
	PCB, K134