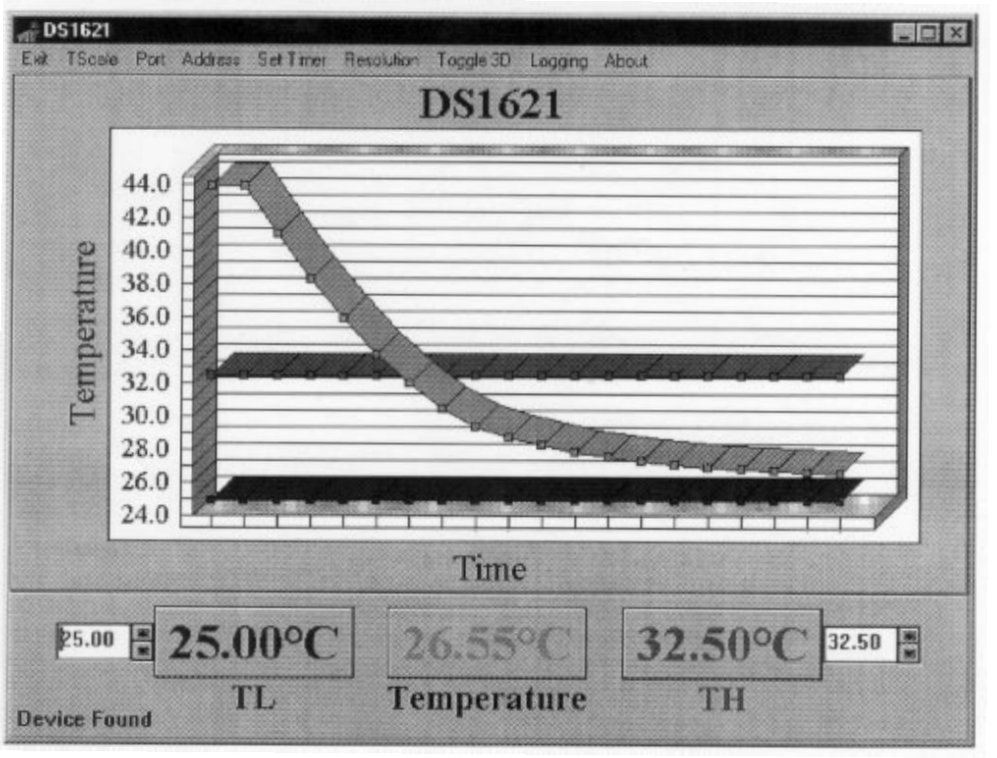
DALLAS SEMICONDUCTOR

DS1621K
Digital Thermometer and Thermostat Demonstration Kit



The DS1621K Demonstration Kit allows a developer to observe the DS1621 in a temperature logging application. While current temperature data is displayed with either 0.5 deg C or 0.01 deg C resolution, the user can change the temperature limits for the thermostat output. All three values are simultaneously shown and updated. Furthermore, the user can set the data acquisition interval in seconds, log temperature automatically to a file, choose between a display in Fahrenheit or Celsius units, and select either 3D or 2D interpretation of the data. The software supports three parallel ports and eight hardware addresses for the DS1621.

The DS1621K consists of a small printed circuit board with a DS1621 pre–configured for address 0x00, a 3.5" floppy with source and executable code, a parallel port adapter, and a 4 ft. RJ–11 cable to connect the PCB to the adapter. Because the PC powers the DS1621, no additional supplies are needed. The Software runs under Windows 3.xx and Windows 95.

The example graph reveals the time constant for the 8–pin PDIP package application in still air: with the time interval set to 30 seconds, 63% of change occur in about 2.5 minutes. The 150 mil SOIC version performs at a significantly faster rate.