

DALLAS
SEMICONDUCTOR

DS1821K
Programmable Digital Thermostat
Development Kit

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MS-DOS Prompt
DS1821 Development Program v1.0
EXIT

TL                                     TH
30 °C  ▲▲▲                               ▲▲▲  40 °C
86.0 °F                                     104.0 °F
1Eh                                         28h
00011110b  ▼▼▼                             ▼▼▼  00101000b

FUNCTION
* T/RB  POWER UP MODE
        SWITCH MODE
-55 °C                                     -67 °F
22 °C
71.6 °F
16h
00010110b

STATUS                                     CONFIG
* THF  CLEAR THF
* ILF  CLEAR ILF
o DONE
        START o ONESHOT
        STOP  o POL

Using LPT Port 1

Use arrow keys to move cursor. Press ENTER to activate function under cursor.

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The DS1821K development kit allows a potential user of the DS1821 to observe the operation of the DS1821 in an actual temperature measurement application. Temperature is measured and displayed in a text box, as well as on a graphical thermometer.

Since the DS1821 is intended to be a stand-alone thermostat, a means of setting the thermostat trip points and setting up the part for stand-alone mode is necessary. The DS1821K development kit allows these functions to be performed. Thermostat trip points may be set by the user, and a graphical display of the status of each thermostat output is available on the screen at all times. Temperature may be displayed in Celsius or Fahrenheit.

The DS1821K consists of a small printed circuit board with sockets for a DS1821 and DS1821T mounted on it (pads are provided for a socket for the DS1821S, but the socket is not provided. See the README file on the program disk for names of suppliers for suitable sockets). A connector and cable is supplied to allow the user to connect the device to a PC parallel port. The development kit "steals" power from the PC's parallel port, so no additional power supplies are needed.

Software is provided that runs under DOS.