READ FIRST

TECHNOLOGICAL ARTS MODEL DKKIR/LCD20x4-RA

These units were originally designed to be a display, keypad interface, and PS/2 keyboard interface <u>for the 68HC series development boards designed by Technological Arts.</u> These were used for Electrical Engineering instruction before they rise of inexpensive personal boards like the Arduino.

BUT

<u>You CAN use them with other microcontrollers such as Arduinos.</u> You have two main options:

1) <u>Use the entire assembly,</u> including the keypad/keyboard/prototyping board. Besides the enclosed schematic and pinout information, you can find data and code examples (written in 68HC11 assembly language) online at

   http://support.technologicalarts.ca/docs/ApplicationBoards/DKKI .

   Included with this module is a pin adapter that permits the 50-pin connector to be plugged into a white breadboard or a circuit board.

OR

2) <u>Unplug the 20 x 4 LCD display and use it by itself.</u> According to the information these LCD modules are consistent with an Optrex DMC20434 display module.   You can download Optrex's comprehensive users manual for this LCD series here:

   http://www.halted.com/corp/19988_Optrex_DmcSeries.pdf