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TW-DIY-5073

Software is the key to the circuit. The hardware is really just a collection of interface chips, displays and components to input and output results into and out of software to and from the real world.



zoom photo

Big PIC Clock Kit - DIY

The Big PIC Clock is based on a PIC16F84 microcontroller (uC.) The software in the uC allows for very accurate timekeeping. For visibility at a distance it uses 2.30/57mm super large, hi-efficiency red LED displays for the hours and minutes and smaller 0.560 LED displays for the seconds. The circuit incorporates a dimming feature so that at night the reduced ambient light is sensed and the display is dimmed.

COMPONENTS

Tinned copper wire 12"

Resistors 5%, 1/4W:

10R R3 1

82R R11 12 14 15 16 17 18 7

180R R11 1

220R R9 10 19 20 21 22 23 7

470R R5 24 25 26 27 28 29 30 31 9

1K R7 1

2K2 R2 1

4K7 R4 1

10K R6 1

470K R8 1

Zero ohm resistors for links on K73b 4

2R2 1W R1 1

0.1 104 box poly MKT C10 1

1n5 box poly MKT C9 1

1N4004 D1 2 3 4 4

1N4148 D5 D6 2

4.000MHZ Xtal 1

10uF/25V mini C1 2 3 4 6 5