

8200-8400

Features

- Crystal Controlled to .005% Accuracy
- Programmable Resolution - 1/10ths, 1/100ths, 1/1000ths, 1/10,000ths
- 8 Digits .375" High, 6 Digits .430 High or 4 Digits .600" High
- Built-in Battery
- Display Hold Memory Feature
- Optional BCD Outputs
- 110/220 - 50 to 400 Hz Power Supply
- 5 and 12 Volts Available for Peripherals

Application:

This crystal controlled electronic timer is ideal for monitoring tests or elapsed time of events where accuracy and durability are required.

Description:

The new 8200-8400 electronic timers feature crystal controlled accuracy together with built-in DIP switches for convenient field programming. Tenths, hundredths, thousandths, and ten thousandths of either minutes or seconds can be switch selected with quality assured accuracy to $\pm 0.005\%$. In

addition, the 8200-8400 features a built-in 110/220 - 50 to 400 Hz power supply, brilliant red orange LED digits and a built-in battery to protect the data from power failure. Varied and attractive mounting styles, optional BCD output, pulse on; pulse off circuitry and economic pricing make the 8200-8400 a versatile and useful timing instrument.

Zero Output: Open collector zero output turns off whenever the counter passes through or idles at zero. Up to 300 milliamps may be switched through this transistor. Optional: BCD only.

Memory: When enabled, the memory function "freezes" the display while the timer continues accumulating time. When unlatched, the display instantly advances to the actual total. +5 VDC will enable. Not available on wire lead versions.

Specifications

Timing Ranges: Programmable seconds and 1/10ths, 1/100ths, 1/1000ths, 1/10,000ths or minutes and 1/100ths also available. Other resolutions available-optional.

Operating Voltages: 5, 12, 24 VDC. Built-in 110/220 Volts AC 50/400 Hz. AC supplies generate an additional 80 milliamps of 5 or 12 volts VDC for powering peripherals.

Elapsed Timer with LED Display



(BCD version 10mA maximum).

Power Consumption: All 8 digits lit to number 8, 200 milliamps.

Battery Standby: Built-in. During power failure, display blanks to conserve energy. Time is stored by built-in battery for up to 1 week. Timer may be stored for 6 months before 24 hours operation is needed for recharge.

Initiation Circuitry: Two modes may be "DIP SWITCH" field selected. Mode "C" causes the timer to start and stop by simply closing and opening a relatively bounce free switch. The "JK" pulse on, pulse off mode causes the timer to start and stop with the leading edges of 3-30 VDC signals. All inputs are adaptable to open collector devices. Impedance is 10 K.

Reset: 3-30 VDC positive going pulses, open collectors or simple mechanical switches to reset. Impedance is 10 K. Reset triggers on leading edge, and overrides timing.

Temperature: +32°F (0°C) to +130°F (54°C).

Mounting: Rugged metal bracket for panel mounting. Wall mount and desk mounts also available.

Termination: Printed circuit board edge connector supplied (standard).

8" wire leads or terminal block optional.

BCD Output: Full parallel TTL compatible, tristate outputs capable of driving 2 standard TTL loads. These 5 volt levels are fully bus compatible easing interface with a variety of printers and data collection modules.

Zero Output: Open collector zero output turns off whenever the counter reads zero. This transistor is capable of switching 300 milliamps. (optional) BCD version only.

Memory: When enabled, the memory function "freezes" the display, while the counter continues accepting pulses. When unlatched, the display instantly advances to the actual total. +5 VDC will enable. Not available on wire lead versions.

