



Solid State Timers and Controllers

4975 Interval Countdown Timer With Time-Of-Day Display



The 4975 is a microcontroller based countdown interval timer with digital display of both the interval timing cycle in progress, and the time-of-day. When not functioning as an interval timer, the display can be set to show the time-of-day. When operating as an interval timer, pressing the START TIMER switch energizes a high current set of output contacts and starts counting down the time. During the timing cycle the output relay is energized and the display will countdown to zero, at which time the output relay de-energizes. When the countdown to zero is reached, the display

will indicate 0:00 and an audible alarm will chirp for five seconds. At the end of the five seconds, the display will return to the preset interval time and await another cycle to be started. The time base can be specified at time of order to be : 99:99 hours :minutes, 99:99 minutes:seconds, or 9999 minutes, or 9999 seconds. When operating voltage is first applied, the time-of-day will flash 12:00. The interval timing periods will flash 1:30 to indicate hours:minutes, 1:40 to indicate minutes:seconds, 1 to indicate 9999 minutes, and 10 to indicate 9999 seconds. Both the time -of-day and the interval time will continue to flash until manually set. To set the time-of-day, press the CLOCK switch. Next, press and hold the SET switch while setting the time using the HOUR and MIN switches. To set the interval timing period, press the TIMER switch. Next, press and hold the SET switch while setting the interval time using the HOUR, MIN, or SEC switches depending on the time base of the model specified. A main ON - OFF switch is provided which powers up the timer. Should the ON - OFF switch be placed in the OFF mode of operation while operating voltage is applied, the time-of-day will continue to keep time, and the preset timing interval will be maintained in memory. The display will turn off, and none of the front panel switches will be active except the ON switch which will place the timer into an active ON condition awaiting a START TIMER cycle, or reprogramming. At any time during an active interval timing period, the RESET switch may be pressed. This will de-energize the output relay and return the display to indicating the preset timing interval period.

Specifications

- Timing Mode:** Interval - Countdown with Time-Of-Day.
- Operating Voltage:** Specified on the order. 115V AC $\pm 15\%$ 50/60 Hz. or 230V AC $\pm 10\%$ 50/60 Hz. @ 1 Watt maximum power at the nominal operating voltage.
- Time Base:** Specified on the order. (-1) for the 99:99 Hours:Minutes, (-2) for the 99:99 Minutes:Seconds, (-3) for the 9999 Minutes, or (-4) for the 9999 Seconds.
- Timing Accuracy:** $\pm 0.05\%$ of interval timing period, and setting, ± 2 minutes per month for the clock.
- Digital Display:** Four (4) digit LCD, 0.5 inch high characters display the remaining time to zero of the preset interval in timer mode, and time-of-day in 12 hour format in Clock mode, without AM/PM indication. Interval displayed as: (-1) 99:99 Hours:Minutes, (-2) 99:99 Minutes:Seconds, (-3) 9999 Minutes, (-4) 9999 Seconds.
- Timing Cycle Memory:** Current time-of-day and preset interval timing period maintained for a minimum of 72 hours after operating voltage is removed.
- Front Panel Switches:** Membrane type with tactile feel
- Audible Alarm:** A solid state alarm will sound for five (5) seconds at the end of a timing cycle.
- Output:** SPST Power relay contacts.
- Output Contact Rating:** Normally Open Contacts: Rated for 20A inductive or resistive at 125 or 240 VAC and 30V DC, 6A inductive or resistive at 277 VAC. 2 HP motor load at 240 VAC, 1 HP motor load at 125 VAC, 6A ballast load at 125 or 277 VAC, 60A LRA at 240 VAC, 20A FLA at 240 VAC per UL file #E44211
- Operating Temperature:** 0 to 70° C.
- Mounting:** Timer is provided for panel mounting with four threaded mounting screws.
- Wiring:** Four (4) .25" Quick Connect terminals.
- Data Sheet Revision Date:** November 21, 1995

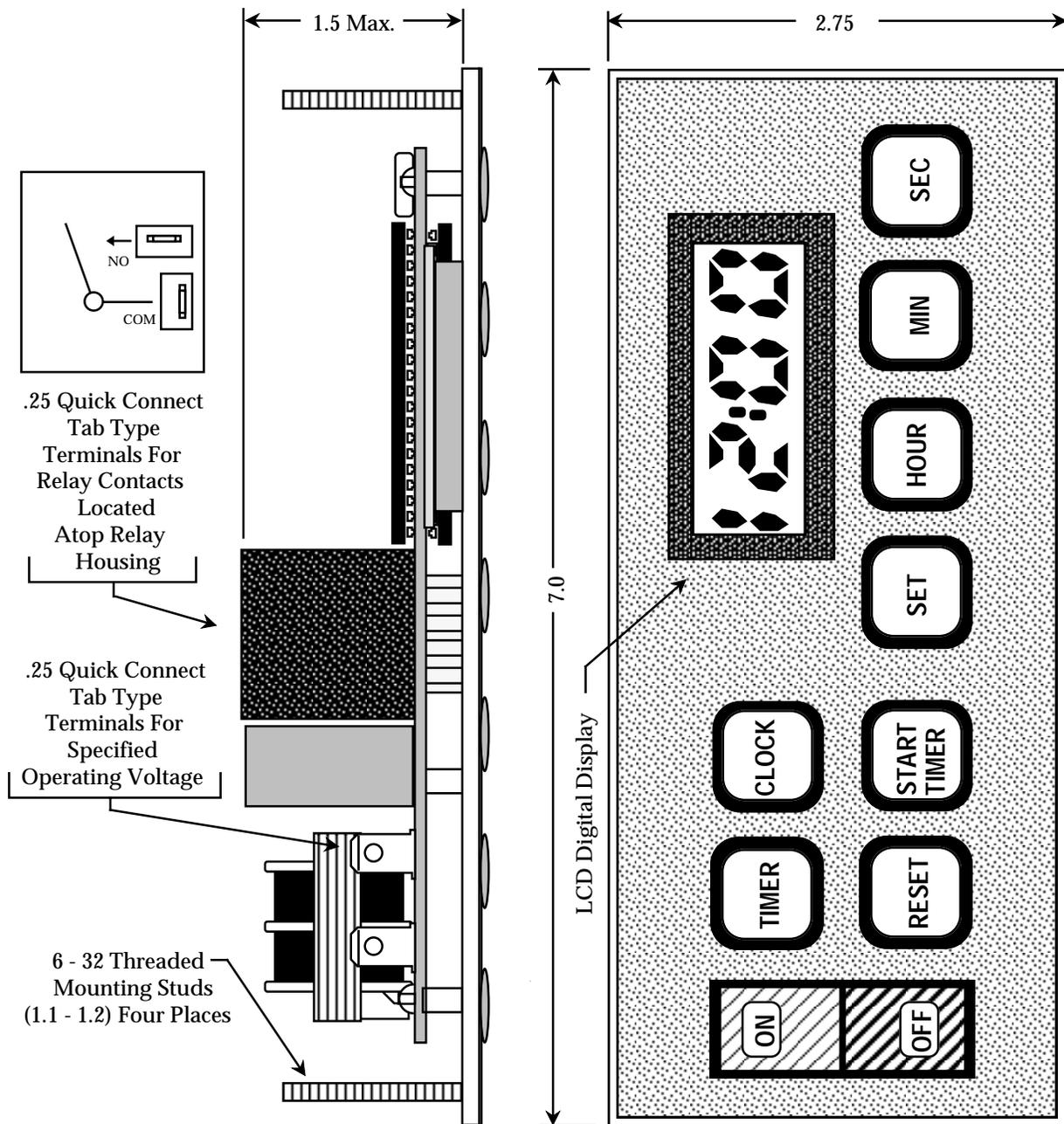
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Mechanical & Wiring



Ordering Information

Part Number	Operating Voltage	Time Base Code
4975 - 115 - Time Base Code	115V AC, 50/60 Hz	(-1) 99:99 Hours:Minutes
4975 - 230 - Time Base Code	230V AC, 50/60 Hz	(-2) 99:99 Minutes:Seconds
		(-3) 9999 Minutes
		(-4) 9999 Seconds.

Example: 4975-115-3

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