

ELAPSED TIME INDICATORS & EVENT COUNTERS RS232 PC BOARD MOUNT



Digital Series Models DDS232H & DDS232C

DDS232H Elapsed Time Indicator Model

DDS232H Solid-State Elapsed Time Indicators have been developed to meet the most difficult requirements of many military and aerospace applications. In one PCB mount package, the DDS232H provides a highly reliable means of monitoring the system and provides an RS232/TTL output making it more compatible with industry standard electronic system design. It requires an RS232 driver/receiver chip such as a MAX232 for RS232 operation.

The indicator operates with 4.5 to 10 VDC and has a range of 99999.99 hours. In addition, the DDS232H has been tested to the MIL-M-7793/13 specification and can be applied to any severe environment.

DDS232C Event Counter Model

The DDS232C Solid-State Event Counter records counts when the unit receives power for greater than 5 seconds. Power-on times of less than 4 seconds will not cause the counter to increment, allowing the count to be read without affecting the results. The count range is 9,999,999.

All connections, data collection, and the display of counts are made in the same manner as the DDS232H Elapsed Time Indicator.

FEATURES

- Monitors your system usage
- RS232/TTL output
- PCB mount
- Non-volatile memory
- Meets mechanical and environmental characteristics of MIL-M-7793/13

MECHANICAL SPECIFICATIONS

Case Dimensions: 1.1" long x .450" wide x .275" high

Weight: Less than 0.2 ounces



Model DDS232H: Elapsed Time Indicator
Model DDS232C: Event Counter

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range: -65 to +125°C

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Life Accuracy: ±0.1% from -65 to +125°C and 4.5 to 10 VDC

Power Consumption: 2 mW max @ 5 VDC0.1

ELECTRICAL SPECIFICATIONS

The meters meet or exceed applicable requirements of MIL-M-7793 and M7793/13.

Operating Voltage Range: 4.5 to 10 VDC

Ripple Voltage: 2 volt peak (4 volt peak-to-peak) ripple between 10Hz and 10kHz superimposed on 7.0 VDC

Output Impedance: 465Ω ± 10%

Logic Zero: Between 0.0 and +0.26 volts

Logic One: Between +3.3 and +4.5 volts

Power Consumption: 2 milliwatts, max.

Transient Protection: Operation when subjected to ±25 volt transients of 10 microsecond duration occurring at a 1 millisecond repetition rate

Dielectric: Withstands 600 VRMS (room) and 350 VRMS (altitude) applied between the power terminals (+5 VDC and common) and an external ground that contact the meter case on the five sides without terminals

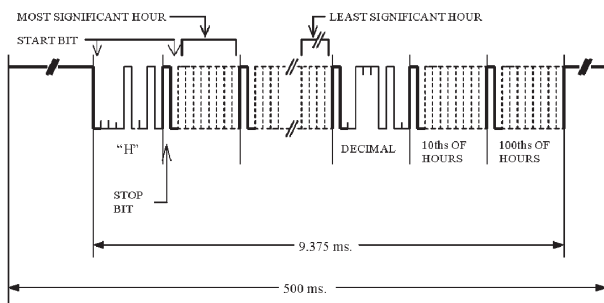
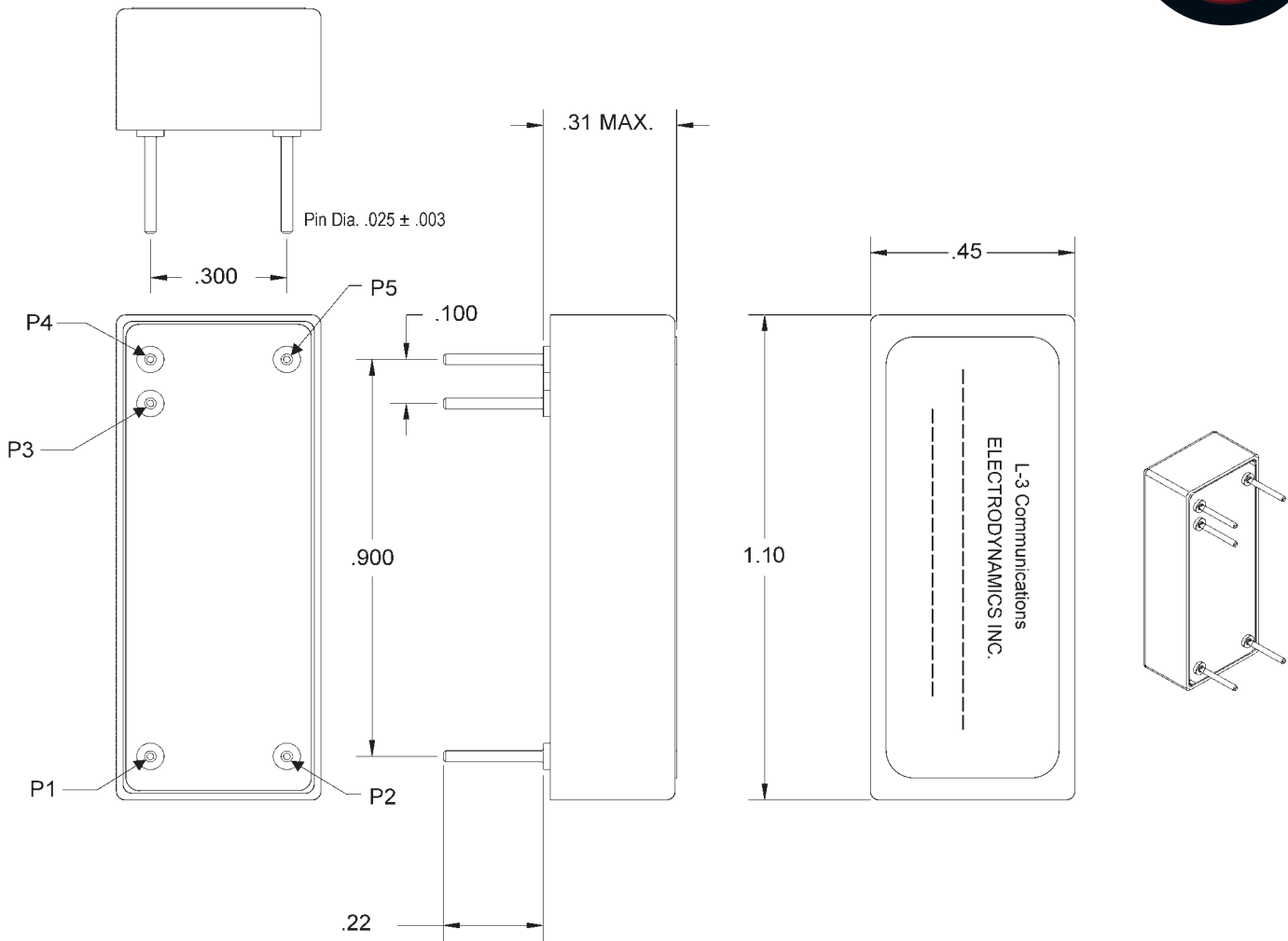
Insulation Resistance: MIL-STD-202, Method 302, Cond. B

Accuracy: 0.1% over temperature/voltage range

Output Data: RS232/TTL, ASCII

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OUTPUT IS CONTINUOUS WHEN POWER IS APPLIED DATA RATE = 9600 BAUD

UART COMPATIBLE - OUTPUT REQUIRES A LEVEL SHIFTING DEVICE SUCH AS A MAX232

DDS232H OUTPUT DATA FORMAT (ASCII)

PIN DESCRIPTION	
P1	+5 VDC
P2	COMMON
P3	OUTPUT DATA TO READER
P4	INPUT FROM READER (+5 V)
P5	COMMON

Common pins are internally connected

DDS232H and DDS232C

NOTE:
Dimensions in inches.
Tolerances, decimals: $\pm .02$ for two-place decimals;
 $\pm .015$ for three-place decimals.

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