

# ELAPSED TIME INDICATORS & EVENT COUNTERS SOLID-STATE, PANEL MOUNT



## Digital Series Models DDS200 & DDS201

### DDS200 Elapsed Time Indicator Model

The DDS200 Solid-State Elapsed Time Indicator and the DDS201 Solid-State Event Counter have been developed to meet the most difficult requirements of military and aerospace applications. In one panel mount package, the DDS200 series provides a highly reliable means of monitoring critical system usage, important for proper equipment maintenance.

The elapsed time and events data can be read via the M7793/12 reader.

The time range for the DDS200 Elapsed Time Indicator is 99999.99 hours.

### DDS201 Event Counter Model

The DDS201 Solid-State Event Counter meets the electrical, mechanical and environment requirements of MIL-M-7793/14 and 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. The count range is 9,999,999.

### FEATURES

- Monitors your system usage
- Panel mount configuration
- Non-volatile memory
- Meets MIL-M-7793/14
- MIL-M-7793/14 qualified model is also available.

### MECHANICAL SPECIFICATIONS

**Case Dimensions:** See next page for detailed dimensions

**Weight:** 1 ounce max.

**Elapsed Time Indicator—Time Range:** 99999.99 hours

### 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

**Salt Spray:** MIL-STD-202, Method 101, Condition B

**Moisture Resistance:** MIL-STD-202, Method 106, Figure 106-1

**Altitude:** MIL-STD-202, Method 105, 0-80,000 feet



Model DDS200: Elapsed Time Indicator

Model DDS201: Event Counter

### ELECTRICAL SPECIFICATIONS

These meters meet or exceed applicable requirements of MIL-M-7793 and M7793/14.

**Operating Voltage Range:** 10-34 VDC and 20-30 VAC, 50-2400Hz

**Ripple Voltage:** Operates normally when subjected to a cyclic peak of ripple voltage of less than 2.0 VDC and the frequency-voltage coordinates of Figure 2 of MIL-DTL-7793/14

**Output Impedance:** 100kΩ ± 10%

**Logic Zero:** 0.0 to 0.2 V

**Logic One:** 3.3 to 6.6 V

**Power Consumption:** 50mW max. at 28 VDC; 25 mW max. at 26 VAC 400Hz

**Transient Protection:** Input voltage and time values shown on Figure 5 and Figure 6 (80V and 600V transient respectively) of MIL-DTL-7793/14.

**Dielectric:** Withstands 600 VRMS (room) and 350 VRMS (altitude) applied between the power terminals and an external ground

**Insulation Resistance:** MIL-STD-202, Method 302, Condition B

**Accuracy:** ±0.1% over temperature/voltage range

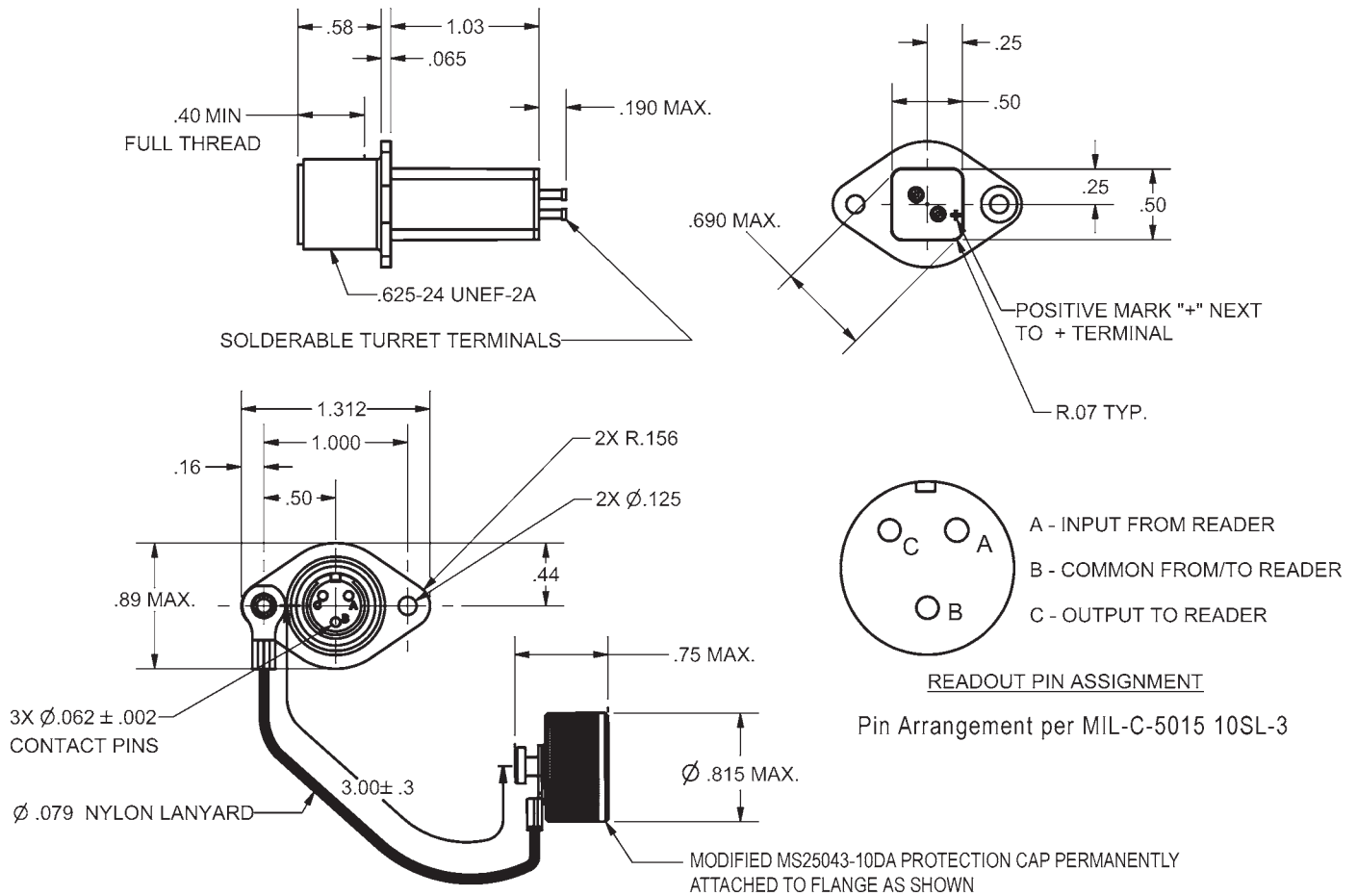
**EMC:** MIL-STD-461, Test Methods CE102 and RE102.

**Output Data:** Serial binary coded decimal format

**Reading Allowed at time of Shipments:** Meters can be delivered with +/- 1 hour upon delivery per MIL-DTL-7793

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DDS200 and DDS201

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

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