

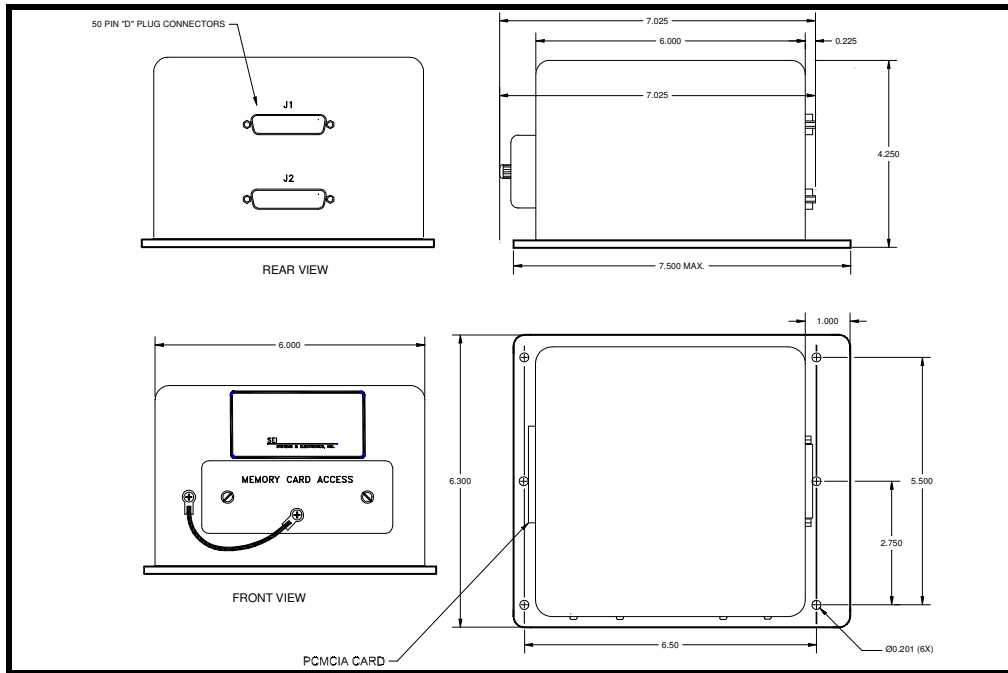
CUMULATIVE FATIGUE RECORDER MODEL A1002



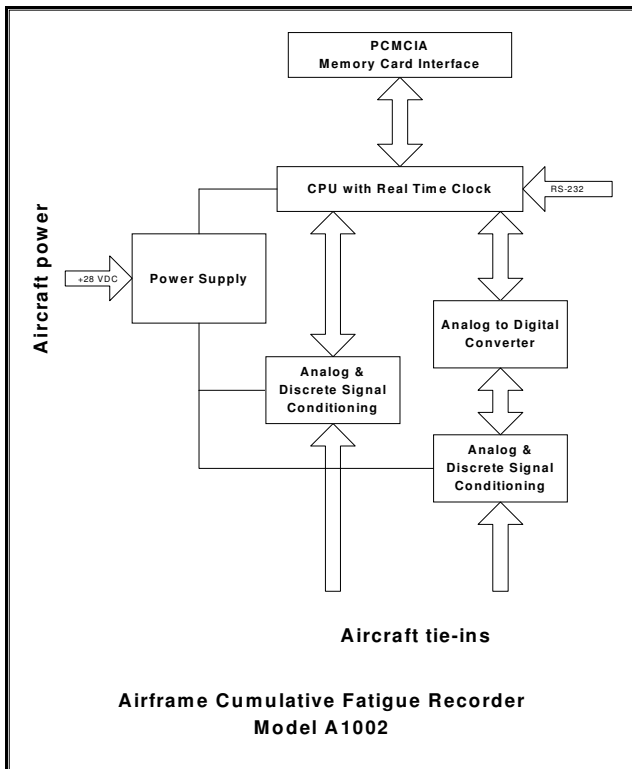
Systems & Electronics, Inc. (SEI) *Cumulative Fatigue Recorder (CFR) Model A1002* could be an alternative to the *Structural Data Recording Set, AN/ASH-37 (v)* or the *Structural Integrity Monitoring System (SIMS)*. The *Cumulative Fatigue Recorder (CFR) Model A1002* is capable of recording **24 analog signals, 16 digital signals and global positioning** as an option. The analog inputs consist of 12 high and 12 low level signals. The low level inputs accept strain gauge signals (millivolts). Recorded flight data is stored on a 32 megabyte PCMCIA card. The unit weighs less than 3 pounds. It is designed to DO-160 environmental and EMI requirements.

**A Cost-Effective
Solution
for Aircraft
Structural Monitoring
and Individual
Aircraft Tracking**

- ◆ **Designed to: RCTA/DO-160D**
- ◆ **Product Features:**
 - ◆ 24 Analog Channels
 - ◆ 10 V Strain Sensor/Transducer Excitation
 - ◆ 16 Digital Input Channels
 - ◆ RS-232 Communication Port
 - ◆ PCMCIA Memory 32 Megabytes
 - ◆ Real Time Clock
 - ◆ GPS (Optional)



Cumulative Fatigue Recorder Outline Drawing



SUMMARY SPECIFICATIONS	
Parameter	Specification
Input Voltage	+18 to 36 VDC
Power Consumption	< 3 Watts
Weight	< 3 pounds
High Level Analog Channels (12) Low Level Analog Channels (12)	± 10 VDC ± 62.5 mVDC
Memory Capacity	32 Mbytes of PCMCIA Flash
Digital Channels (8) Digital Channels (8)	Ground/Open +28 V/Open
Communication Interfaces (1)	RS-232
Voltage Outputs (4)	+5 VDC +10 VDC ±15 VDC
Operating Environment	-20°C to +70°C