

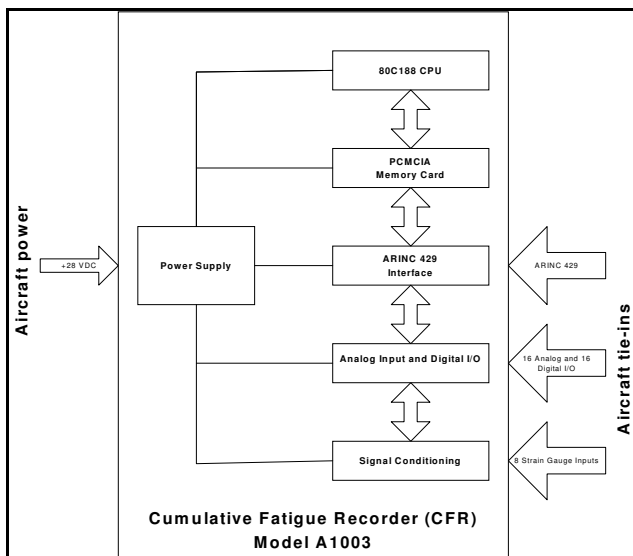
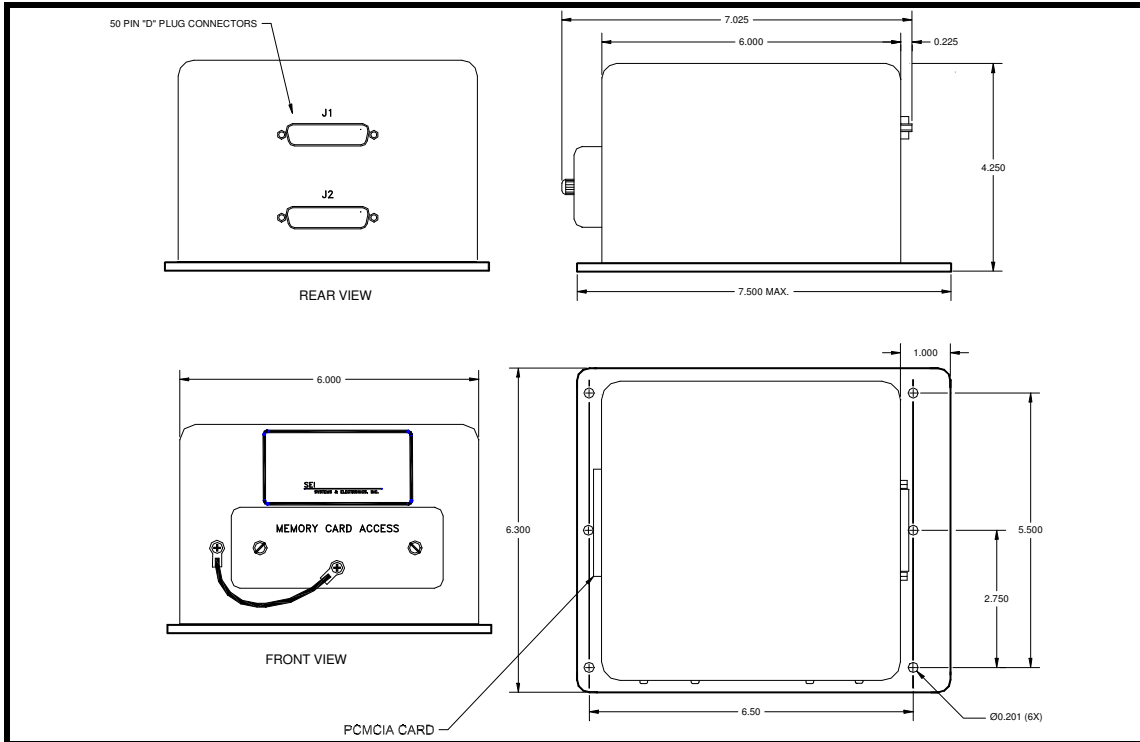
CUMULATIVE FATIGUE RECORDER MODEL A1003



Systems & Electronics, Inc. (SEI) *Cumulative Fatigue Recorder (CFR) Model A1003* is an advanced, low cost structural data recorder capable of monitoring parameters from the aircraft's ARINC 429 data bus and provides analog and digital channels for other aircraft parameters which are not available on the data bus. The *CFR Model A1003* is capable of recording *8 analog signals, 8 strain sensors, and 12 digital signals*. The recording media is a removable PCMCIA card which can easily be downloaded from a laptop computer with SEI software. The *CFR Model A1003* has low power consumption, light weight, and small size which allows for easy aircraft installation.

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

- ◆ **Product Features:**
- ◆ **Designed to DO-160**
- ◆ **8 ±10 VDC Analog Channels**
- ◆ **8 ±60 millivolt Analog Channels**
- ◆ **12 Digital Input Channels**
- ◆ **ARINC 429 Data Bus**
- ◆ **Two RS232 Communication Links**
- ◆ **PCMCIA Memory 32 Megabytes**
- ◆ **Real-Time Clock**
- ◆ **Built-In-Test (BIT)**



SUMMARY SPECIFICATIONS	
Parameter	Specification
Input Voltage	+18 to 36 VDC
Power Consumption	< 3 Watts
Weight	< 4 pounds
Analog Channels (16) Analog Channels (8)	± 10 VDC ± 60 mVDC
Digital Channels (12)	(6) Ground / Open (6) +28V / Open
Memory Capacity	32 Mbytes PCMCIA Flash
Communication Interfaces	(2) RS-232 (4) Rx ARINC 429 (2) Tx ARINC 429
Voltage Outputs	+10 and ±15 VDC
Operating Environment	-20°C to +70°C