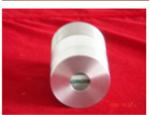
Mini Ultra-High Shock Analog Recorder





DESCRIPTION



The SS-10 SERIES is a family of miniaturized, high shock, solid-state, 4-channel recorders designed to acquire transducer data in shock environments of up to 100,000 G's. The epoxy-encapsulated unit can be configured for a variety of transducer inputs to accommodate automotive crash

testing, blast testing, mining applications, weapon testing, or testing in hostile field environments. Battery is included in the recorder ,Low power consumption allows instrumentation build-up weeks before the test and extends the time for data retrieval after the test. Data retrieval is accomplished using a personal computer. Software supplied with the recorder enables retrieval, storage, display, and printing of the data.

FEATURES

- -- Small Size
- -- 1, 2, or 4 Analog Channels
- -- 12 Bit Resolution
- -- Low Power with 3.3 or 5 Volt Logic
- -- Battery is embeded in the recorder
- -- Single end or Differential Input
- -- 6-Pole Low Pass Filter
- -- High Sample Rate
- -- Pre-Trigger Data Retention
- -- Software Support
- -- Reusable
- -- Expandable Memory (to 256K Data Points)

Recorder Type Model 11 Model 12 Model 14

Number of Channels 1 2 4

Standby Current 80 Microamps1 80 Microamps1 80 Microamps1

Data Acquisition Current 70 Milliamps1 70 Milliamps1 80 Milliamps1

Data Retention Current 80 Microamps1 80 Microamps1 80 Microamps1

1Typical current

FACTORY SELECTABLE OPTIONS

- --Storage Capacity Expandable to 256K Data Points (512K bytes)
- --Sample Rate / Filter Frequency (Limited Options)
- --3.3 Volt or 5.0 Volt Logic
- --Pre-Trigger Memory Size (Limited Options)
- --User Defined Package Shape

SERIES 10

the output

Recorder Model 11 Model 12 Model 14

Sample Rate/Channel 250 KHz 1250 KHz 60 KHz

Low Pass Filter Bandwidth 100 KHz 55 KHz 30 KHz

Memory Size (Data Points) 128K 128K 128K

PC Board connector. The outer shell is stainless steel.

Pre Trigger Data/Channel 1819 Bytes 1934 Bytes 1988 Bytes

 Resistors (Pull-Down)
 220K
 220K
 220K

 Logic (Volts)
 3.3
 3.3
 3.3

ELECTRICAL SPECIFICATIONS

Amplifier Input	Single end or Differential
Input ModesPizoresistive ,ICP,Charge or Voltage	
Low-Pass Filter Type	6-Pole Butterworth
Digitizer Amplitude Resolution	12 Bits
Storage Capacity64K Data Points (128K Bytes) or 256K Data Points	
Triggers	3.3 or 5 Volt
Supply Voltage	6 to 10 Volts
Supply Voltage for External Sensor	3.3 or 5.0 volts
Supply Current for External Sensor Per Channel	10 Milliamps (Maximum)
PHYSICAL SPECIFICATIONS	
Temperature Range	0 C to 75 C
Length.	2.36" (60.0mm)
Diameter	1.49" (38.0 mm)
Weight	4 oz. (110 Grams)
Maximum Shock Level	100,000 G's
NOTE: The Recorder is fully epoxy-encapsulated with the exception of the input terminals and	

DATA RETRIEVAL

Software is supplied to retrieve, store, display, examine, and print data. The software requires a 386 based PC computer configured with a mouse, VGA graphics, a hard disk, a high density floppy, and a minimum of 2 Meg expanded memory. A PostScript laser printer is highly recommended for data printout. Data analysis software is available. Data can be retrived through normal cable to connecting the recorder with PC directly.

ULTRA-HIGH SHOCK RECORDER WITH SENSOR EMBEDED Series 20





ULTRA-HIGH SHOCK RECORDER Series 30





Specification

1. Channels: 4

2. Sampling rate: 1 KHz

3. Memory:128 K/Ch

4. A/D:12 Bit

5. Recording time:133 s