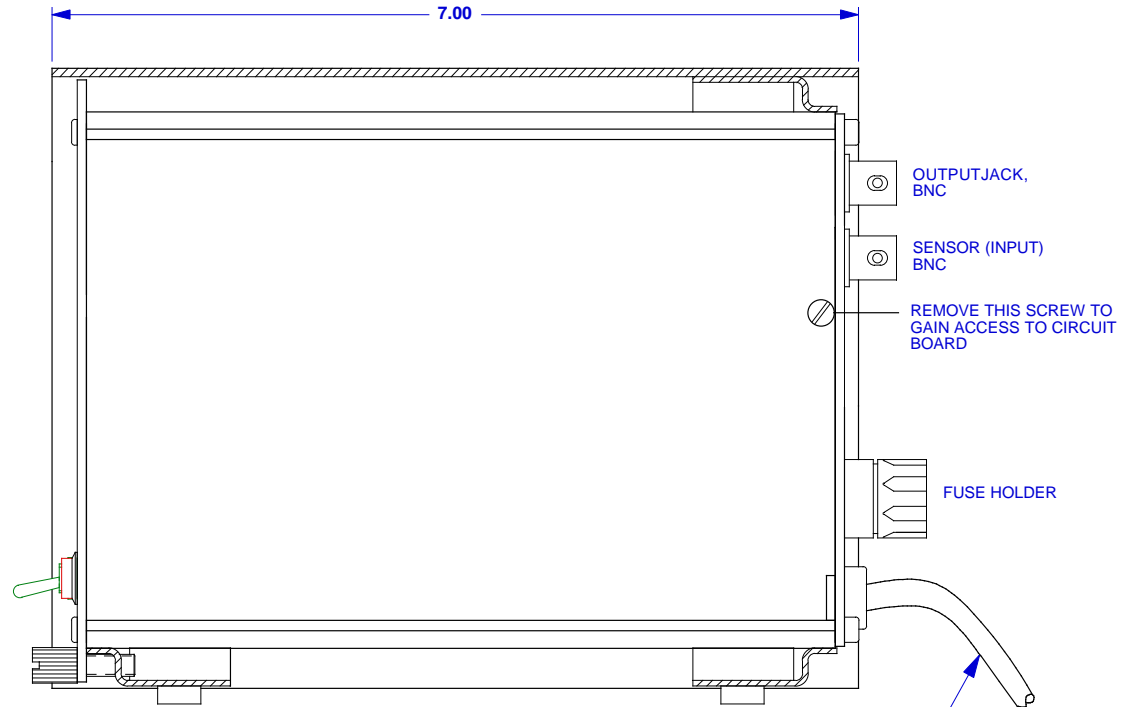


10-SEGMENT LED ARRAY
DC VOLTMETER MONITORS
SENSOR BIAS VOLTAGE

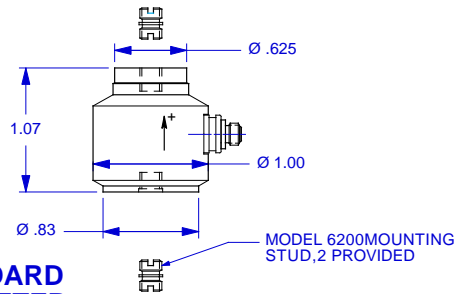
**4119B POWER
UNIT**

REMOVE THIS SCREW
TO REMOVE UNIT FROM
OUTER CASE



THIS VIEW IS WITH OUTER
CASE SECTIONED

LINE CORD, 6 FT.



MODEL 6200 MOUNTING
STUD, 2 PROVIDED

**3120B STANDARD
ACCELEROMETER**

| | | | |
|--|---------|----------------|--------------|
| | | CHATSORTH, CA. | |
| SCALE | 1X | REV | DATE |
| DATE | 1/28/00 | PART NO. | MODEL 3120BK |
| DRAWN | N.C. | CHECKED | R.A. |
| APPROVED | | NEXT ASSEMBLY | USED ON |
| TITLE | | | DWG NO. |
| OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 3120BK | | | 127-3120BK |
| SHEET 1 OF 1 | | | |

SPECIFICATIONS

MODELS 3120BK & E3120BK VIBRATION CALIBRATION SYSTEM

SYSTEM DEFINITION: THE **3120BK** SYSTEM CONSISTS OF: 3120B STD. ACCELEROMETER, 4119B POWER UNIT/AMPLIFIER, 6011A05 INPUT CABLE, 6020A05 OUTPUT CABLE, 6200 MOUNTING STUD (2), 6201 10-32/1/4-28 MTG. STUD, 6213 ADHESIVE MOUNTING BASE, 6309 CARRYING CASE. MODEL **E3120BK** IS IDENTICAL EXCEPT FOR THE 230 VAC OPERATING VOLTAGE.

| SYSTEM SPECIFICATIONS | VALUE | UNITS |
|--|--------------|--------------|
| SYSTEM SENSITIVITY @ 100 Hz [1] | 10.00 ±.05 | mV/G |
| FREQUENCY RESPONSE, ±2% [1] | 10 to 10,000 | Hz |
| LINEARITY | ± 1 | % F.S. |
| RANGE F.S. FOR 5 VOLTS OUT | ± 500 | G |
| OPERATING FORCE RANGE [2] | ± 40 | Force-pounds |
| EQUIVALENT ELECTRICAL NOISE, (BROADBAND) | .02 | G, RMS |
| OUTPUT IMPEDANCE | 2 | Ohms |

ACCELEROMETER MODEL 3120B SPECIFICATIONS

| | | |
|------------------------------------|----------------------------|----------|
| SENSITIVITY, ±5% | 10 | mV/G |
| FREQUENCY RESPONSE, ±6% | 0.4 TO 10k | Hz |
| DISCHARGE TIME CONSTANT | 1.0 | Sec |
| COEFFICIENT OF THERMAL SENSITIVITY | .03 | %/°F |
| TEMPERATURE RANGE | -60 to +200 | °F |
| TRANSVERSE SENSITIVITY, MAX | 3 | % |
| ELECTRICAL CONNECTOR, RADIAL | 10-32 COAXIAL | Jack |
| MOUNTING HOLES, TOP & BOTTOM | 10-32 | UNF-2B |
| MAXIMUM SHOCK | 3000 | G |
| MATERIAL (NON-MAGNETIC) | 300 SERIES STAINLESS STEEL | |
| SUPPLY CURRENT (CONSTANT CURRENT) | 2 | mA |
| COMPLIANCE VOLTAGE | +20 | VDC |
| WEIGHT | 3/85 | oz/grams |

AMPLIFIER/POWER UNIT 4119B SPECIFICATIONS

| | | |
|------------------------------------|---------------------------|--------------|
| SENSOR SUPPLY CURRENT/VOLTAGE, STD | 2/+20 | mA/VDC |
| FILTER, LOW PASS, ACTIVE | VCVS | 12 db/octave |
| SENSOR/OUTPUT CONNECTOR | BNC/BNC | Coaxial jack |
| INPUT POWER, STD MODEL, 115 VAC | 2.4 | VA |
| INPUT POWER, 'E' MODEL, 230 VAC | 2.4 | VA |
| POWER CORD, STD | 6 FT 3-WIRE W/CHASSIS GND | |
| WEIGHT | 32/900 | oz/grams |
| SIZE (H x W x D) [3] | 5.5 x 1.6 x 8.0 | Inches |
| (H x W x D) [3] | 140 x 41 x 203 | mm |
| TEMPERATURE RANGE | 0 to +120 | ° F |

[1] System calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration.

[2] Force pound range = product of weight of test accelerometer x G level.

[3] Mounts in available Model 4200 19-inch wide equipment rack. Up to 10 units fit in one rack.