



## **SPECIFICATIONS**

## **MODELS 3176B & 3176B1 LIVM ACCELEROMETERS**

SPECIFICATION (Common to both models)	VALUE	UNITS
PHYSICAL		
WEIGHT SIZE, HEX x HEIGHT MOUNTING PROVISION (Model 3176B) (Model 3176B1) ELECTRICAL CONNECTOR, AXIAL MATERIAL CASE/CONNECTOR ELEMENT TYPE	44 .69 x 1.66 TAPPED HOLE AT CENTER TAPPED HOLE AT CENTER 2-PIN MILITARY MII-C-5015, HERN 300 SERIES PIEZOCERAMIC, PLANAR SHEAR	ST. STEEL
PERFORMANCE		
SENSITIVITY, ± 5% [1] RANGE FOR ± 5 VOLTS OUT FREQUENCY RESPONSE, ± 10% MOUNTED RESONANT FREQUENCY, TYP. EQUIVALENT ELECTRICAL NOISE FLOOR, (RESOLUTION) AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METRANSVERSE SENSITIVITY, MAX. STRAIN SENSITIVITY	5	mV/G G Hz kHz G RMS % F.S., MAX. PERCENT CROSTRAIN @ 250/µ
ENVIRONMENTAL		
MAXIMUM VIBRATION MAXIMUM SHOCK TEMPERATURE RANGE ENVIRONMENTAL SEAL	500 5000 -60 TO +250 GLASS TO METAL/WELDED,HERMETIC	G's, RMS G's, PEAK <sup>O</sup> F
ELECTRICAL		
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2] EXCITATION CURRENT RANGE OUTPUT IMPEDANCE, NOM. OUTPUT BIAS VOLTAGE, ± 1. VOLTS DISCHARGE TIME CONSTANT, MIN. OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP POWER/SIGNAL GROUND to CASE ISOLATION, MIN.	+20 to +30 2 to 20 200 13 .5 POSITIVE GOING 10	VDC mA OHMS VDC SEC. MEGOHMS

## **ACCESSORIES PROVIDED**

MODEL 3176B [1] MODEL 6200S MOUNTING STUD MODEL 3176B1 [1] MODEL 6176 MOUNTING STUD

## **NOTES**

 $[1] \ \ \text{MEASURED AT 100 Hz}, 1 \ \text{G RMS}. \ \ \text{A CALIBRATION CERTIFICATE TRACEABLE TO} \ \ \text{\textbf{NIST}} \ \text{IS SUPPLIED WITH EACH INSTRUMENT}.$ 

[2] THE USE OF DYTRAN LIVM CURRENT SOURCE POWER UNITS IS RECOMMENDED. DO NOT CONNECT THIS INSTRUMENT TO A SOURCE OF DC VOLTAGE WITHOUT CURRENT LIMITING PROTECTION, 20 mA MAX. TO DO SO WILL DESTROY THE INTERNAL AMPLIFIER AND VOID THE WARRANTY.