

DATA SHEET: ACCELEROMETERS

D110-U (Uniaxial) and D110-T (Triaxial) Accelerometers



Our force-balanced accelerometers operate via an OEM MEMS servo with the lowest noise and highest performance commercially available.

Available as either uniaxial or triaxial, these sensors provide electrostatic feedback without magnetic components. The rugged, die-cast aluminum housing is NEMA 4x rated, and is easily mounted on many surface types.

Specifications	
Full Scale Range	+/- 3g (~3.5g at clip)
Output	1.2 V/g typical into 2000 ohms or greater
Load Capacitance	10,000 pf max
Cross-Axis	0.005 g/g
Linearity Error	<±0.2% F.S.
Noise Floor	<1µg/√Hz (0.05 – 1500 Hz Band)
Dynamic Range	>110dB
Bandwidth	DC – 2000 Hz at -3dB
Power	+/-12 Vdc, 9mA

Physical Characteristics	
Operating Temperature	-40°C to +85°C
Temperature Zero Drift	<200µg/°C over temperature range
Temperature Scale Factor	<80ppm/°C (of F.S.)
Shock Performance	>1500g 0.5ms ½ sine
Housing	Watertight diecast aluminum enclosure
Dimensions	4.25" x 3.0" x 2.25" (108 x 76 x 57mm)
Weight	1.1 lbs (0.5 kg)

DIGITEXX
DATA SYSTEMS, INC

13880 N. Northsight Blvd, Suite 109 | Scottsdale, AZ 85260 | (623) 242-1198 | www.digitexx.com