

# Accelerometers: D110-U (Uni-axial) and D110-T (Tri-axial)

## Overview:

The Digitexx D110-U and D110-T are Force-balanced Micro electro-mechanical (MEMS) Capacitive accelerometers and feature a wide dynamic range, excellent bandwidth and an ultra-low noise floor. They provide high resolution and precise measurements at an excellent value making them ideal for Structural Health Monitoring (SHM) installations.



Available in both uni-axial or tri-axial, our rugged aluminum housings are NEMA 4 rated and easily mount to most surfaces.



D110-T (Tri-axial)

Specifications	
Full Scale Range	+/-3g
Output	1.2 V/g typical into 2000 ohms or greater
Cross-Axis Rejection	>46dB
Linearity Error	+/-0.1%
Noise Floor	300 to 500 ng(rms)/√Hz from 10 to 1000Hz
Dynamic Range	120dB
Bandwidth	DC: 2000Hz (uni) DC: 1000Hz (tri)
Supply Voltage	+/-6 to +/-15Vdc, 11.7mA (uni) +/-6 to +/-15Vdc, <30mA (tri)

Physical Characteristics	
Operating Temperature	-40°C to +85°C
Temperature Zero Drift	+/-100μg/°C over temperature range
Temperature Scale Factor	250ppm/°C (uni) 75ppm/ °C (tri)
Shock Performance	1500g 0.5ms ½ sine (uni) 1000g 0.5ms ½ sine (tri)
Housing	Watertight aluminum enclosure
Dimensions	79 x 74 x 58 mm
Weight	0.57 kg