

- **Velocity and Acceleration Output**
- **Low Noise**
- **Low Power**
- **Rugged**
- **High Sensitivity**



### EV-12 Uniaxial Force Balanced Velocity Meter/Accelerometer

The EV-12 is a high sensitivity uniaxial force balance sensor with both velocity and acceleration outputs. Unlike piezo type sensors, the servo force balance construction offers acceleration frequency to DC. The velocity output has a frequency range of 0.5Hz to 70Hz. It offers low noise, high dynamic range, and is perfectly suited for most strong motion monitoring applications. The unit can be used either as in horizontal or vertical orientations. The EV-12 standard packaging is a small 2-inch cube field case with mounting plate and connector. Optional triaxial version is available. The sensor elements are housed in an epoxy sealed aluminum case. They are extremely rugged, and designed for long-term deployment in field environments. Unlike solid-state type accelerometers, the EV-12 does not experience significant drifting with temperature changes.

EV-12 Specifications	
<b>High Sensitivity Velocity Output</b>	
Type:	Uniaxial Servo Force Balanced design, can be used for horizontal or vertical mounting*
Frequency range:	0.5Hz to 100Hz $\pm 3$ dB (damping 70% critical)
Measuring range:	$\pm 10$ kine (4 IPS)
Voltage Sensitivity:	at least 1V/Kine (2.54 V/ IPS)
Spectral Noise ( for 1/3 octave band ):	1 ~ 70 Hz, < 20i kine ( rms )
<b>High Sensitivity Acceleration Output</b>	
Type:	Uniaxial Servo Force Balanced design, can be used for horizontal or vertical mounting*
Frequency range:	DC to 100 Hz +1dB, -3dB
Measuring range:	$\pm 2$ g
Voltage Sensitivity:	at least 5 V/g
Spectral Noise ( for 1/3 octave band ):	1 to 100 Hz, < 1i g ( $\mu$ g) (rms)
Dynamic Range:	> 120dB
Operating Temperature:	-10 ~ +50 ° C
Power:	$\pm 12$ V, 30ma max
Shock Survival:	1000 g, 1 ms 100 g, 11 ms
Humidity:	95% R.H.
Housing:	Environmental Field Enclosure, 2" cube with mounting plate and circular connector (mates with PT06A-10-6S) Optional Triaxial version
*1g counter bias for vertical optional. <span style="float: right;">Specifications subject to change.</span>	