

Piezoelectric Accelerometers:

Piezoelectric Accelerometers are among the latest introductions to Dynaspede's family of Transducers, offered for tests & measurements applications.



Introduction:

Measurement of shock and vibrations forms a vital field of study in development, testing and diagnostic monitoring of engines, structures and machines...for all strategic segments of industry, defense and aviation. A low mass, wide band, piezoelectric accelerometer forms the core of any reliable system for vibration measurements and analysis. With the introduction of high-performance piezoelectric accelerometers, based on indigenously developed NPL technology, Dynaspede hopes to cater to requirements, hitherto met exclusively by imports from advanced countries. In all stainless steel construction with a Hex base of 18 mm, total height of 24mm and a mass of 40 gms, these transducers are guaranteed for a measurement range of 20 Hz to 8000 Hz for vibration and shock below 2000g.

ACCELEROMETER MODEL: 451000 SPECIFICATIONS

DYNAMIC		
Reference sensitivity @ 159.2 Hz at 23 °C		
Voltage sensitivity – typical	mV/g	23.46
Voltage sensitivity – min.	mV/g	22
Frequency range ± 5%	Hz	20 - 8000
Charge sensitivity – typical	pC/g	54.36
Amplitude linearity	%	0.1
Mounted Resonant frequency	kHz	> 37
Max. Continuous sinusoidal vibration	g	2000
Maximum shock	g	3000
ELECTRIC		
Capacitance (inclusive of cable) – typical	pF	2317
Capacitance of the cable- typical	pF / m	93.5
Minimum leakage resistance at 23 °C	G	20
PHYSICAL		
Weight	gm	40
Sensing element		Piezoelectric
Mounting torque	Nm	1.8
Mounting thread		M5
Case Material		SS 316
Connector		10-32 UNF Microdot coaxial
Grounding		Signal ground is connected to the case
Polarity		Polarity is positive at center of connector for acceleration directed from the mounting surface into the accelerometer.
ENVIRONMENTAL		
Temperature	°C	-20 to + 180
Sealing		Epoxy



Dynaspede has been growing rapidly in size, content and quality of its market offerings. After establishing an early lead in eddy current drives, introduced way back in 1978, Dynaspede soon expanded into market offerings that today include a comprehensive range of Digital AC and DC drives. With an impressive gallery of supporting products, such as high-performance planetary gear units, motor management products, transducers and a host of application-specific control modules, our Drives Division, today seeks engineering challenges to enhance your production machines and processes.

Our Web Products Division further expands our market offerings to cover a range of products that serve the needs of Converting Industry segment ... in paper, film and foil. These include Dynaspede and Montalvo range of tension control systems, Enercon corona treaters, Tectonic web viewing systems, static eliminating systems and complete drive solutions tailored to your needs.

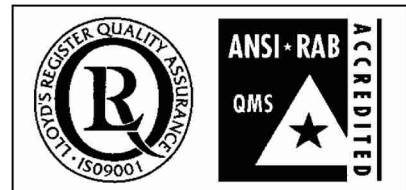
Our Special projects group provides unparalleled mechatronic solutions in application areas of testing rotating machines/elements like motors, generators, engines, pumps, axles, gearboxes, clutches, transmission belts and a lot more... We are well equipped to handle operations demanding synergic combination of mechanical, electrical and electronic expertise.

From simple designs of a base-plate to the complexities of automatic controls, every piece of equipment from Dynaspede reflects our commitment to excellence. A modern fully equipped, in house Metrology Laboratory provides for calibration of mechanical and electronics instruments, traceable to international test standards.

What sets Dynaspede apart... is the collaborative approach of our dedicated professionals. We take pride in being elastic to meet all customer concerns, both stated and implied. We enjoy spending long hours to match customer expectations. Within the family of Dynaspede, we keep driving a point or two... no hard selling in pre-sales matters, no matter what... and no soft pedalling in the after-sales matters.

Our D-U-N-S number :65-011-9662

ISO 9001 CERTIFIED



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