





"The vibration monitoring equipment market is expected to grow from \$987 million in 2014 to \$1,454 million in 2020 at a CAGR of 6.6% between 2015 and 2020."

Cite: Marketandmarkets

$$K_{(t)} = K_0 * 2^{\frac{t}{T_2}}$$

**Moores Law** 













Source: hackmag.com-wp-content-uploads-2015-02-automation







Source: www.alstomenergy.gepower.com

Monitoring High Value Assets



Source: www.pumpen-wieck.de



Source: www.wikimedia.org



Monitoring Low Value Assets











Source: www.drahtmagazin.de Source: linuxogrenmekistiyorum.com



+ Less 30% Sensor Price





Source: www.kks-gifts.com







Source: hackmag.com-wp-content-uploads-2015-02-automation



Source: www.it-kit.de



4-20 mA Sensors





























Source: www.gtf-freese.de



Source: www.nauticexpo.de











Source: www.impegra-gt-club.ch



Source: www.press.lectura.de











Source: www.schwaebische.de



Source: www.mittellandzeitungsdruck.ch



Source: www.latayka-druckindustrie.de





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•	Reducing Downtime	Understand Guarantee	Becomes State of the Art
•	Monitoring Low Value	Issues	Understand and
	Assets	Understand Customer	Calculate Risks
•	Go with Industry 4.0	Processes	

Oppoliterativities service Provide a partition in provider

- Increasing Variety of Machines and Components
- Increasing Number of Channels and Data
- Adapt to a New Market with Need of Low Value Systems





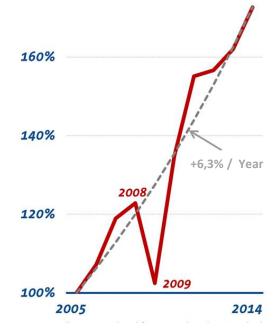








Turnover Sensors and Monitoring Equipment Yearly Value, Compared with 2015 (Index 100%)





































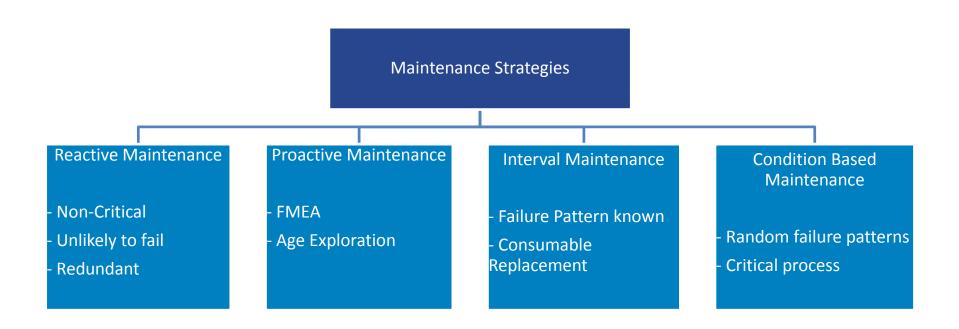














#### **HS-100S Accelerometer**

AC acceleration output via 2 Pin MS Connector

#### Key Features

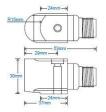
- · For use with data collector
- · Side entry for easy access
- · Customisable features

Transverse Sensitivity

#### Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







# BEARING RELIABILITY CONFERENCE & EXPO

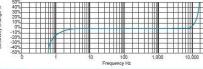
recnnical Performance	al Penormance	
Mounted Base Resonance	see 'How To Order' table (nominal)	
Sensitivity	see: 'How To Order' table ±10%	
	Nominal 80Hz at 22°C	
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	
Isolation	Base isolated	
Range	see: 'How To Order' table	

Mechanical		
	Case Material	Stainless Steel
	Sensing Element/Construction	PZT/Compression
	Mounting Torque	8Nm
	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	Weight	185gms (nominal)
	Screened Cable Assembly	see: www.hansfordsensors.com for options
	Connector	HS-AA004 - non-booted
		HS-AA053 or HS-0054 - booted
	Mounting Threads	see: 'How To Order' table

Liectrical		
Electrical Noise	0.1mg max	
Current Range	0.5mA to 8mA	
Bias Voltage	10 - 12 Volts DC	
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>108 Ohms at 500 Volts	

Environmental		
Operating Temperature Range	-55 to 140°C	
Sealing	IP68	
Maximum Shock	5000g	
EMC	EN61326-1:2013	

#### Typical Frequency Response (at 100mV/g)



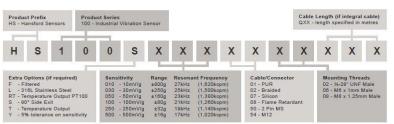
#### Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



#### How To Order



Less than 5%



www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice

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Headings: Arial, minimum 20 points Bold

Text: Arial, minimum 16 points

