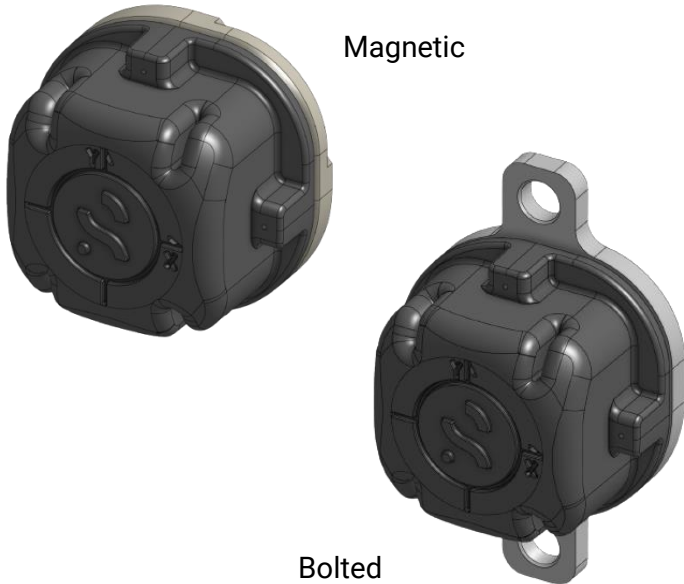


The Sensotek Tau® sensor range is used to continuously monitor your vibratory equipment. Reporting key parameters to our cloud based Analytix® platform, these values can be trended over time and used to identify faults or inefficiencies with your equipment.



Magnetic

Bolted

The Sensotek Tau® Bearing sensor range has been specifically developed to monitor bearings used in vibratory equipment:

Key Applications

- Vibrating Screens
- Feeders
- Crushers
- Any machine with a given motion:
 - Elliptical
 - Circular
 - Linear

Part Numbering (Options must be specified)

AN-S01-m01-S7C2

Mounting Options (<i>m</i>)	0 = Magnetic 1 = Bolted
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Mechanical

Physical

Dimensions	Shown on next page
Weight (Magnet)	260g
Weight (Bolted)	240g
Lid Material – Lid	POM-GF20
Material – Magnetic Base	Nickel Plated Mild Steel
Material – Bolted Base	Stainless Steel
Mounting Options (<i>m</i>)	0 = Magnetic 1 = Bolted

Environmental

Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Sealing	IP69K
Shock	1000g

Power Source

Battery

Type	Non-Replaceable 3.6V
Chemistry	Lithium
Life	3+ years
Impact to Life	Temperature, Transmission Rate Sampling Rate

Communication

Data Transmission

Rate (Awake)	1 minute
Rate (Sleep)	10 minutes
Effective Range	250 meters Line-of-Sight
Frequency	<1GHz ISM Band
Sensotek Channel	Channel 2

Measurements

Temperature

Temperature Range	-40 to 85°C (-40 to 185°F)
Temperature Accuracy	±2°C

Vibration (more info on next page)

Axes	X, Y, Z
Sampling Frequency	6400Hz (2500Hz Fmax)
Range - Acceleration	±16g Autoscaling

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Short Interval Data – Overall Values	
Parameter	Unit
Sample Rate (Temperature)	1 minute
Sample Rate (Vibration)	3 minutes
Measurements	Temperature RMS Velocity RMS Acceleration Waveform Peak to Peak
Sample Window	200ms
Sample Frequency	6.4kHz

Long Interval Data – Time Waveform & Spectrum		
Parameter	Unit	
Sample Rate	12 hours	
Axes	X, Y, Z (for all types)	
Type of Measurement	High	Full
Purpose	Speed Ident.	Vib. Analysis
Sample Window	2938ms	625ms
Sample Frequency	1.4kHz	6.4kHz
Number of Samples	4096	
Max Freq (Fmax)	550Hz	2500Hz
Lines of Resolution (LOR)	1600	
Bin Resolution	0.34Hz	1.56Hz
FFT Windowing	None or Hann	
Calculated Values	Pk-Pk, Crest Factor, Spectrum Bands	

Dimensions by Mounting Method	
Magnetic	Bolted
