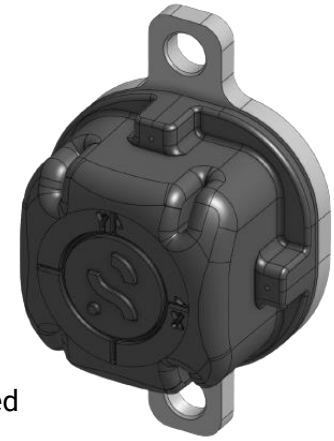
Sensoteq®

Tau Structure Datasheet

The Sensoteq 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 Sensoteq Tau® Structure sensor range has been specifically developed to identify rotating patterns and key parameters for 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-*m*01-S8C2	
Mounting Options (*m*)	0 = Magnetic 1 = Bolted

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 (*m*)	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 Thionyl Chloride
Life	3+ years
Impact to Life	Temperature, Transmission Rate Sampling Rate

Communication	
Data Sampling	
Time	10 seconds
Rate	5 minutes
Data Transmission	
Rate (Awake)	5 minutes
Rate (Sleep)	10 minutes
Effective Range	250 meters Line-of-Sight
Frequency	<1GHz ISM Band
Sensoteq Channel	Channel 2

Measurements	
Temperature	
Temperature Range	-40 to 85°C (-40 to 185°F)
Temperature Accuracy	±2°C
Vibration	
Axes	X, Y, Z
Sampling Frequency	409.6Hz
Range - Acceleration	-8 to +8g

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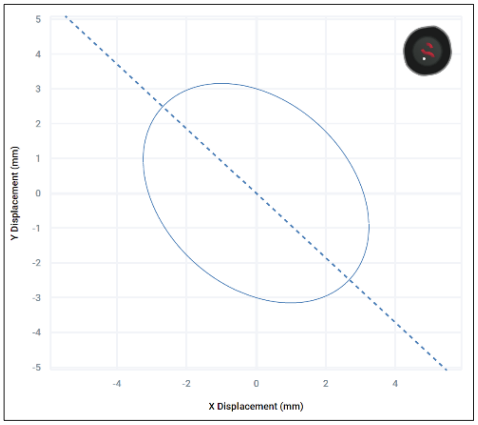
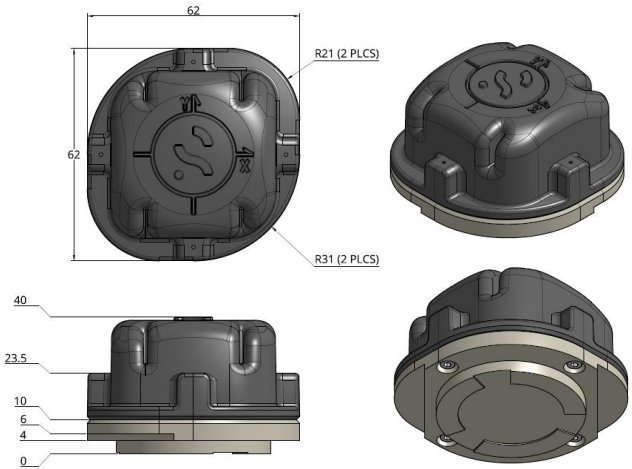
Calculated Parameters	
Parameter	**Unit**
Stroke Length	mm
Stroke Angle	degrees
Phase Angle	degrees
Sensor Rotation	degrees
Running Speed	RPM or Hz
Deflection (Velocity)	mm/s
Deflection (Displacement)	mm
Peak Displacement (X/Y)	mm
Screen Uptime	5 minute resolution
Rotating Pattern	representative image



Dimensions by Mounting Method

Magnetic



Bolted