



# Sensotek

The Sensotek Chi® sensor range is used to wirelessly 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.



## Chi Datasheet

The Sensotek Chi sensor ANT2001 has been developed to provide critical insights on an array of applications

### Key Applications:

- Motors, Pumps, Fans
- Vibrating Screens
- Gearboxes, Conveyors

| Product Highlights                             |  |
|--|--|
| On Demand Data Sampling and Analysis           |  |
| Capture Time Series Data and Stroke Plots      |  |
| Connect up to 4 sensors (Stroke Analysis Only) |  |

| Product Variant              |  |
|------------------------------|--|
| CH-T01-s-t                   |  |
| Number of Sensors in Kit (s) | 2 = Two Chi Sensors<br>4 = Four Chi Sensors    |
| Tablet Option (t)            | 0 = Tablet Not Included<br>1 = Tablet Included |

| Mechanical            |                           |
|-----------------------|---------------------------|
| Physical              |                           |
| Dimensions            | Shown on next page        |
| Weight                | Shown on next page        |
| Lid Material – Lid    | Acetal                    |
| Material –Base        | Aluminium 6082-T6         |
| Environmental         |                           |
| Operating Temperature | -10 to 60°C (14 to 140°F) |
| Storage Temperature   | -10 to 60°C (14 to 140°F) |
| Sealing               | IP64                      |
| Shock                 | 1000g                     |

| Power Supply       |                                   |
|--------------------|-----------------------------------|
| Subheading Example |                                   |
| Type               | Rechargeable Lithium Polymer 3.7V |
| Chemistry          | Lithium                           |
| Life               | 500 charge cycles                 |
| Sensor Usage Life  | Approximately 10hrs of live data  |

| Communication      |                      |
|--------------------|----------------------|
| Data Transmission  |                      |
| Transmission Rate  | 10-15s               |
| Transmission Range | 30m (site dependent) |
| Frequency          | 2.4GHz ISM Band      |

| Measurements                       |                           |
|------------------------------------|---------------------------|
| Temperature                        |                           |
| Temperature Range                  | -10 to 60°C (14 to 140°F) |
| Temperature Accuracy               | ±2°C                      |
| Vibration                          |                           |
| Axes                               | X, Y, Z                   |
| Vibration Velocity Frequency Range | 2Hz to 2560Hz             |
| Vibration Velocity Range           | ±5%                       |
| Vibration Velocity Range           | 0.1 to 500mm/s            |
| Vibration Acceleration Range       | Programmable ±2g to ±16g  |
| Vibration Acceleration Range       | 0.1%                      |

## Dimensions

### Magnetic mounting option

|                      |                          |
|----------------------|--------------------------|
| Dimensions           | 37.5mm x 48mm x Ø 16.5mm |
| Weight (with magnet) | 100g                     |

