

## Sensemore Wired

*Vibration Sensor for  
Synchronous Measurement in  
R&D & Maintenance*



### Rugged Design with IP67 Rated Protection for Harsh Environmental Conditions

- Sensemore Wired is a 15 gr lightweight, IP67 rated, rugged enough to stand in tough conditions such as water, dust and oil.

### Remote Monitoring

- Sensemore CloudApp software allows you to monitor your equipment from your computer for remote monitoring.
- With the Sensemore trigger device, you can take measurements only when your machine is running.

### Predictive Tools

- Get root-cause analyses from measurement.
- Get notification for the health of your equipment 7/24.
- Follow-up Data Trends.

Sensemore Wired can integrate your system. You can directly plug into your system via RS485 or UART.

You can use this sensor with DC to 6 kHz frequency range and remotely monitor dangerous or hard-to-reach places synchronously.

Monitor vibration and temperature measurements to detect common faults such as imbalance, misalignment, looseness and bearing wear faults. In addition to that, different types of anomaly detection are also possible .

Get notifications via mails about the health of your machines.

You can create a trend by setting the periodic time on Cloud App.

Perform the R&D Studies of your products in seconds and store your records in cloud.



### Easy to Use

Install with adhesive, connect with SenseWay, measure and take actions in seconds without specialized training.



### Support for Your Projects

If you want to develop a project with Sensemore Wired; you can always consult our software, hardware and mechanical experts.



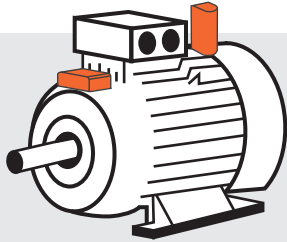
### Correlated Measurements

You can take synchronous measurements for special solutions.



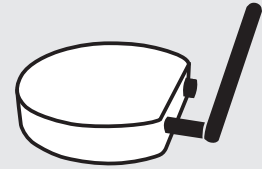
## Sensemore Wired Installation Steps

How can we start to **optimized maintenance operations** with Sensemore?



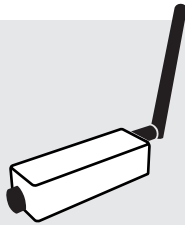
### Sensor Placement

It is enough to place the Sensemore Wired on your equipment quickly and easily with glue.



### Senseway

With Senseway, you can take periodic measurements without any intervention.



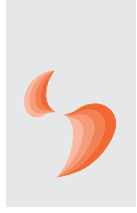
### Senseway Lite

By connecting up to 10 Sensemore Wired to Senseway Lite, you can quickly and easily integrate it into your system.



### Cloud App

You can store and analyze your data in the Sensemore Cloud App, receive automatic alarms and thus take action without your machines malfunction.



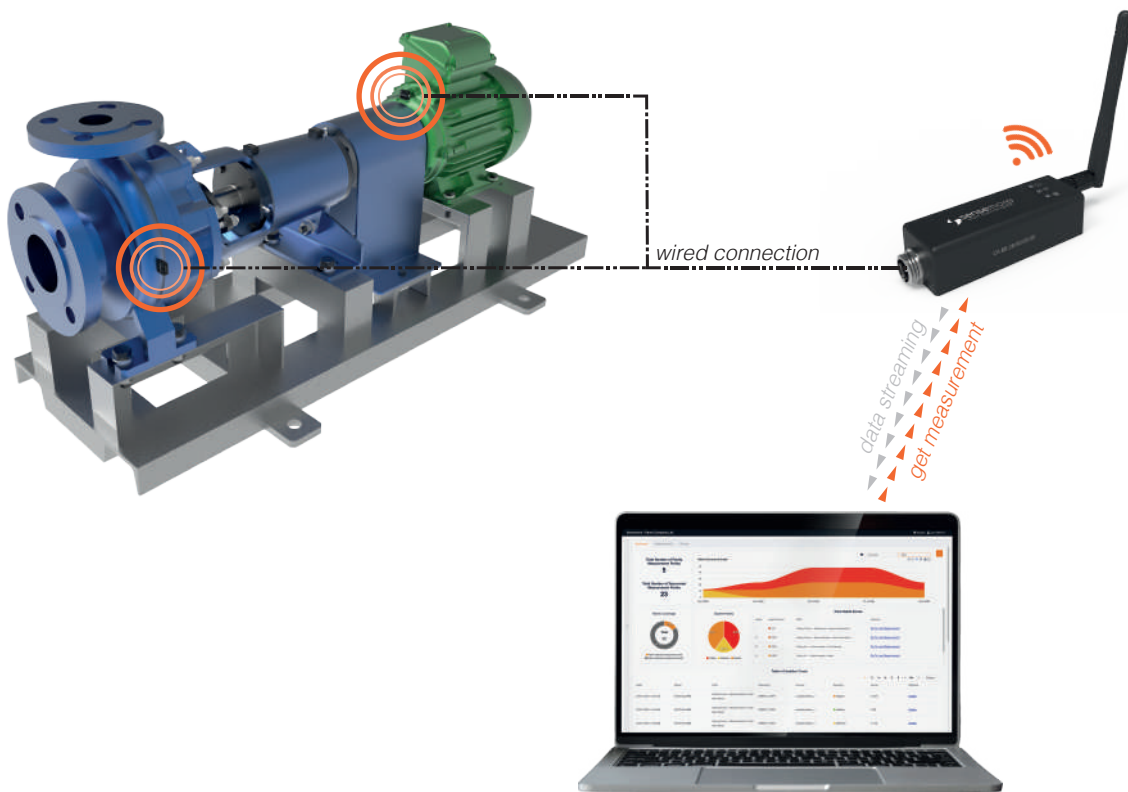
## Sensemore Wired Use-Cases

What can we use **Sensemore Wired** with to take vibration and temperature measurements?



### Case 1

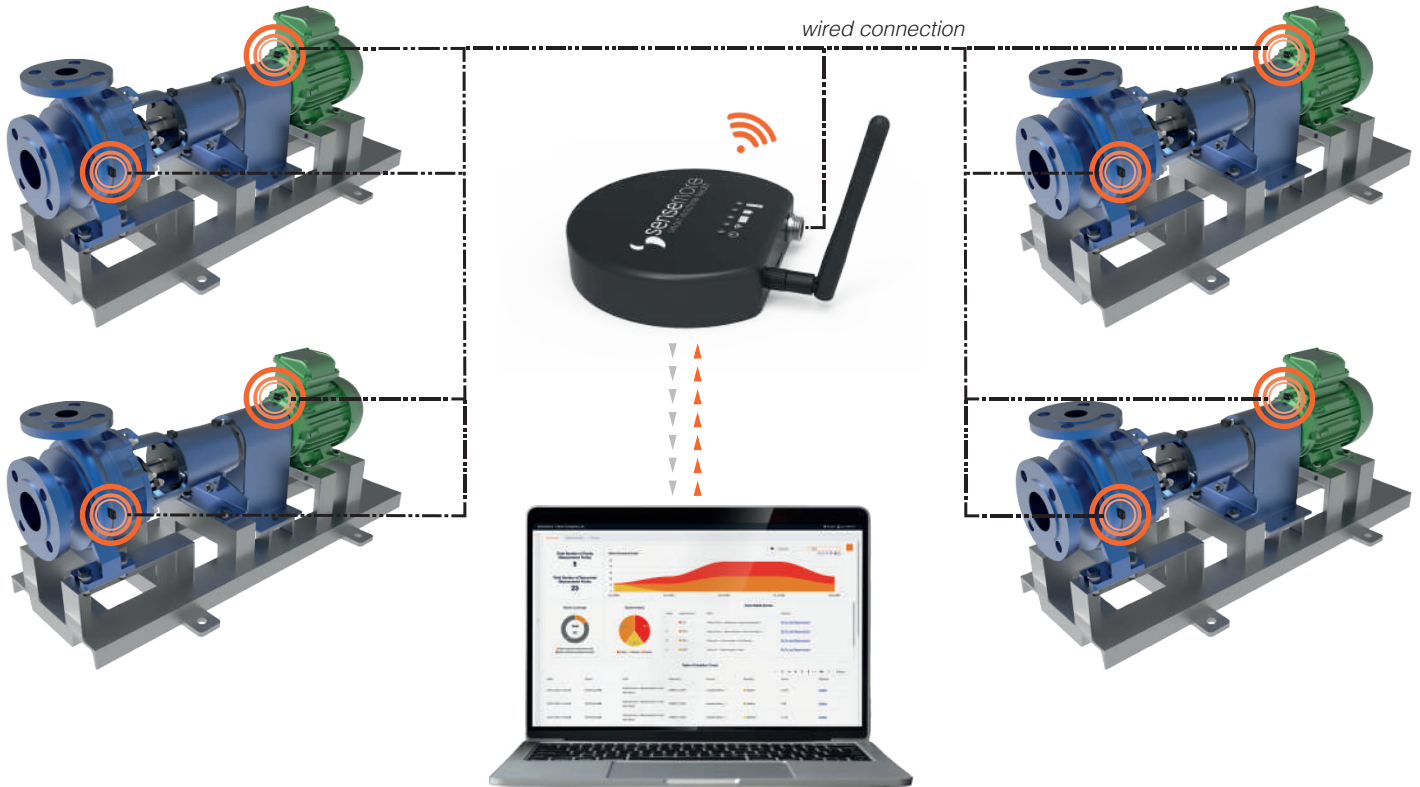
You can take **synchronous measurements** and analyze on **Cloud** via **SenseWay Lite**. Thus, you can integrate it into your system quickly and cost-effectively.





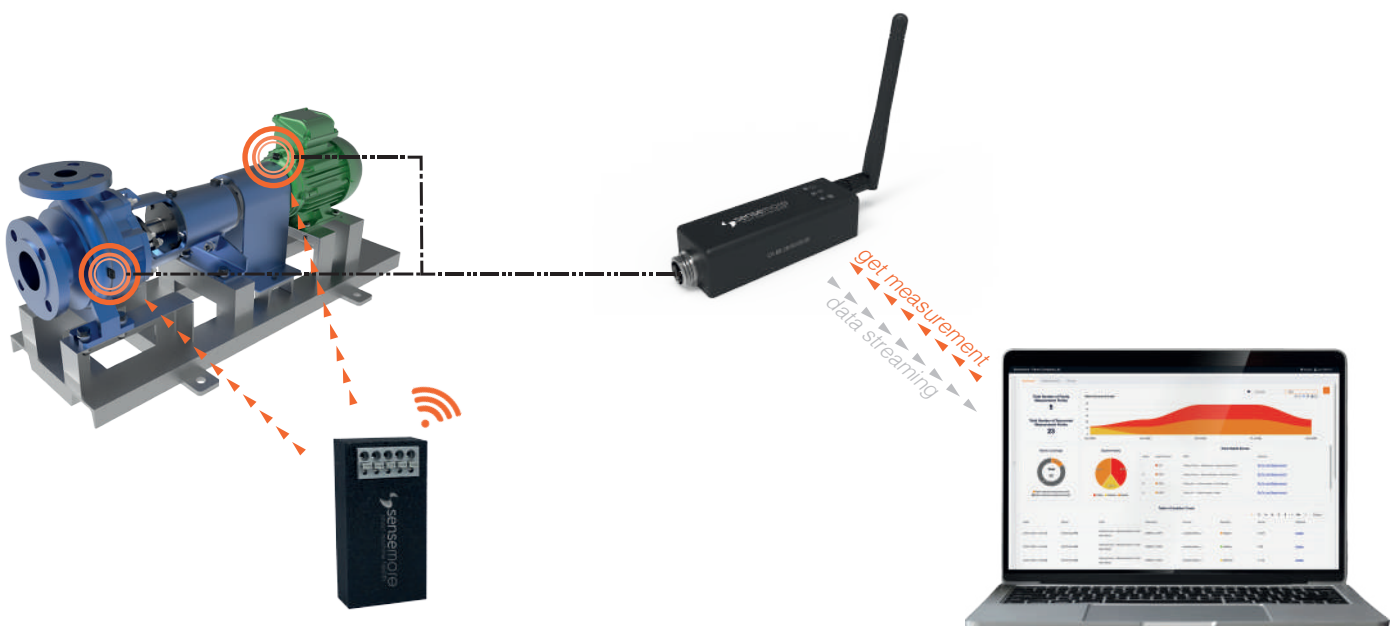
## Case 2

You can take **synchronous measurements** with **up to 10 sensors** from **Senseway**. Humidity, pressure, and sound pressure level telemetries can be taken from Senseway alongside temperature and vibration.



## Case 3

You can only get measurement as soon as your machine is running with **Sensemore Trigger**. In this way, **perpetual measurements** are taken from stop-and-go equipments.



### Wired General Specifications

|               |                 |                       |
|---------------|-----------------|-----------------------|
| Accelerometer | Frequency Range | DC to 6 kHz           |
|               | Sampling Rate   | 26 kHz                |
|               | Dynamic Range   | ±16 g                 |
|               | Resolution      | 16 bit                |
|               | Noise Density   | 60 µg/√Hz             |
|               | Internal Memory | 8 MB                  |
| Temperature   | Communication   | RS485 or UART*        |
|               | Sensitivity     | ± 0.5°                |
|               | Storage Range   | -40 °C to +80 °C      |
| Mechanical    | Operating Range | -40 °C to +80 °C      |
|               | Size (L*W*H)    | 26 mm * 24 mm * 10 mm |
|               | Weight          | 15 gr                 |
| Power         | IP Rating       | IP67                  |
|               | Supply Range    | 5 - 36V               |
| Altitude      | Operating       | 3000 m                |
|               | Storage         | 12000 m               |

UART\*: requires external hardware.

### Senseway General Specifications

|                        |                      |  |
|------------------------|----------------------|--|
| Temperature & Humidity | Sensitivity          | ± 0.5°                                 |
|                        | Storage Range        | -40 °C to +80 °C                       |
|                        | Operating Range      | -40 °C to +80 °C                       |
|                        | Relative Humidity    | 0 to 100%                              |
| Pressure               | Output Data          | 16 bit                                 |
|                        | Range                | 260 to 1260 hPa                        |
| Microphone             | Output Data          | 24 bit                                 |
|                        | SNR                  | 65 dBA                                 |
|                        | Sensitivity Tolerans | ± 1 dB                                 |
| Bluetooth              | Frequency Response   | 50 Hz to 20 kHz                        |
|                        | Type                 | Low Energy 5.1                         |
|                        | Frequency Range      | 2.4 GHz                                |
| WiFi                   | Antenna              | 3 dBi Single Antenna, Omni Directional |
|                        | Type                 | 802.11 b/g/n                           |
|                        | Frequency Band       | 2.4 GHz                                |
|                        | Security             | WEP/WPA/WPA2                           |
| Mechanical             | Antenna              | 3 dBi Single Antenna, Omni Directional |
|                        | Size (L*W*H)         | 120 mm * 105 mm * 123 mm               |
| Power                  | Weight               | 120 gr                                 |
|                        | DC Input             | 5 - 36V DC                             |

### Senseway Lite General Specifications

|            |                 |  |
|------------|-----------------|--|
| WiFi       | Type            | 802.11 b/g/n                           |
|            | Frequency Band  | 2.4 GHz                                |
|            | Security        | WEP/WPA/WPA2                           |
|            | Antenna         | 3 dBi Single Antenna, Omni Directional |
|            | Signal Strength | <-65 to -70 dBm                        |
| Mechanical | Size (L*W*H)    | 78 mm * 28 mm * 21 mm                  |
|            | Weight          | 45 gr                                  |
| Power      | AC Input        | 100V ac to 240V ac, 50/60 Hz           |

### Sensemore Trigger General Specifications

|            |                 |                        |
|------------|-----------------|------------------------|
| WiFi       | Type            | 802.11 b/g/n           |
|            | Frequency Band  | 2.4 GHz                |
|            | Security        | WEP/WPA/WPA2           |
|            | Signal Strength | <-65 to -70 dBm        |
| Mechanical | Size (L*W*H)    | 120 mm * 60 mm * 30 mm |
|            | Weight          | 40 gr                  |
| Power      | Supply          | 12-24V                 |
|            | Logic Input     | 0-24V                  |



#### Sensemore Teknoloji A.Ş.

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