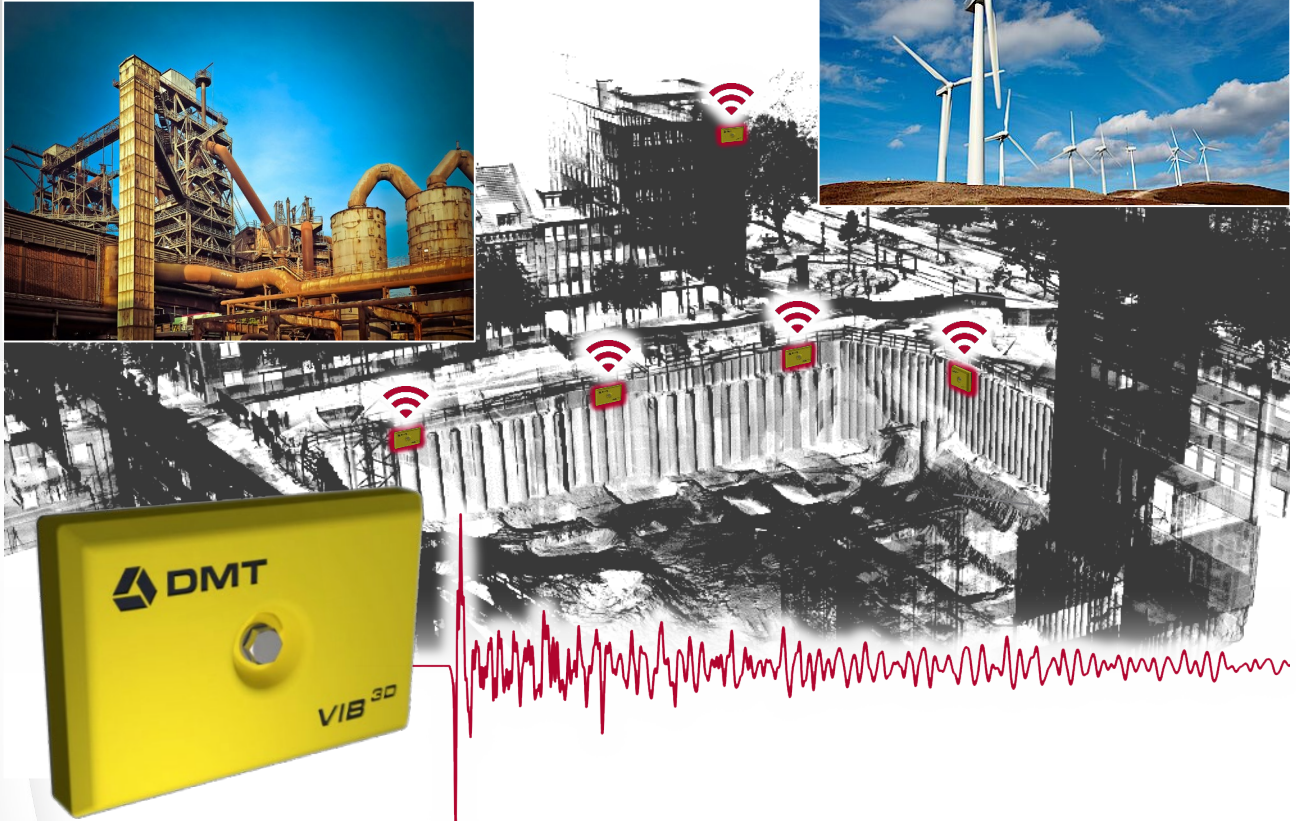


Immission Control, Predictive Maintenance, Preservation of Evidence, Evaluation

DMT VIB^{3D}

IOT sensor for real-time vibration monitoring



- Vibration and movement measurement with calibrated MEMS sensors
- Large scale digital sensor networks
- Triggered or continuous recording
- Straightforward installation supported by automatic leveling
- Data transmission by LTE / WLAN
- Network or GPS time base
- Worldwide access to the web-frontend integrated in DMT SAFEGUARD
- System for vibration analysis, automated alarm functionality and data visualization

Immission Control

- Safeguarding people, buildings and infrastructure against vibrations

Predictive Maintenance

- Vibration Analysis and condition monitoring for any industry, machinery and working environment

Preservation of Evidence

- Continuous monitoring of all vibrations
- Automated measurement and data transmission
- Long-time data storage and integrity in DMTs SAFEGUARD database

Evaluation

- Evaluation of vibrations according to international vibration monitoring standards

Technical Specifications

<ul style="list-style-type: none"> ▪ Size ▪ Weight ▪ Mounting 	<p>120 x 80 x 20 mm (L x W x H)</p> <p>135 g (without mounting parts)</p> <p>Single mounting point in any orientation via centric mounting hole or optional tripod stand</p>
<ul style="list-style-type: none"> ▪ Digitalization <p>Sensor Type</p> <p>Sampling Rate</p> <p>Recording Length</p> <p>Recording Type</p> <p>Frequency Range</p>	<p>Triaxial MEMS accelerometer</p> <p>125 Hz - 4 kHz</p> <p>1 – 60 seconds per data file</p> <p>Event based or continuous</p> <p>DC (0 Hz) to Nyquist</p>
<ul style="list-style-type: none"> ▪ Signal Output <p>Measurement Unit</p> <p>Signal Transformation</p>	<p>Selectable:</p> <ul style="list-style-type: none"> - Acceleration [g] - Acceleration [mm/s²] - Velocity [mm/s] <p>Selectable:</p> <ul style="list-style-type: none"> - Automatic Sensor orientation and levelling - Fixed or pre-defined sensor orientation - Dynamic DC offset removal
<ul style="list-style-type: none"> ▪ Data Storage 	<p>Internal SD memory for data storage in offline mode and Data buffering in online operation</p>
<ul style="list-style-type: none"> ▪ Data Transmission <p>WLAN</p> <p>Mobile Radio</p>	<p>IEEE 802.11b/g/n 1x1 SISO (2400 MHz – 2484 MHz)</p> <p>GSM/GPRS/EDGE (900 / 1800 MHz)</p> <p>UMTS/HSPA+ (900 / 2100 MHz)</p> <p>LTE (700 / 800 / 900 / 1800 / 2100 MHz)</p>
<ul style="list-style-type: none"> ▪ Time Synchronization 	<p>Internal RTC / NTP / GPS</p>
<ul style="list-style-type: none"> ▪ Power Supply 	<p>5V (max. 2A) Micro-USB connector</p>
<ul style="list-style-type: none"> ▪ Environmental Conditions <p>Temperature</p> <p>Humidity</p> <p>Casing</p>	<p>-25 °C - +60°C</p> <p>0 – 95 %</p> <p>IP 65</p>

subject to technical changes

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