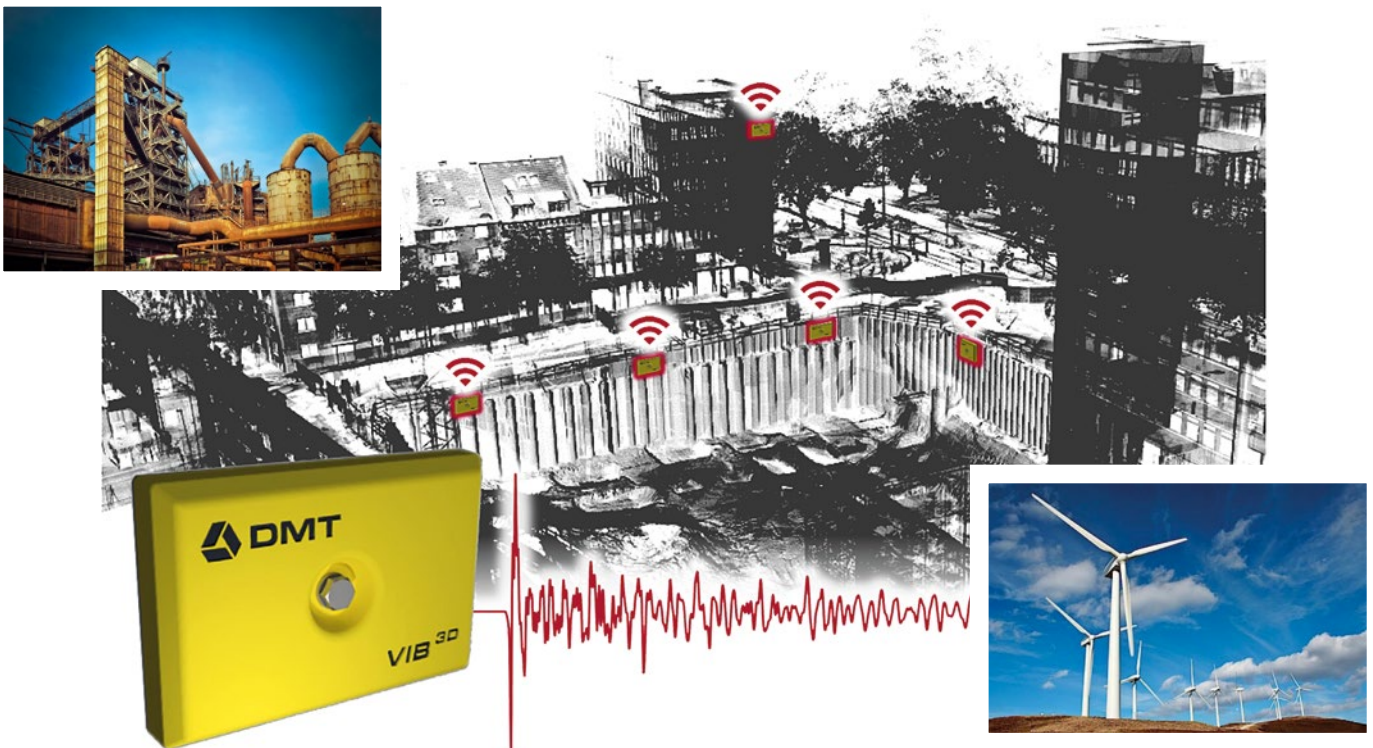


## DMT VIB<sup>3D</sup> – IOT sensor for real-time vibration monitoring

Immission control, predictive maintenance, preservation of evidence, evaluation



- 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 for people, buildings and infrastructure from vibrations

### Predictive maintenance

- Vibration Analysis and condition monitoring in any case of industry, machinery and working environment

### Preservation of evidence

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

### Evaluation

- Evaluation of vibrations according to international vibration monitoring standards

Technical specifications	
<b>Size</b>	120 x 80 x 20 mm (L x W x H)
<b>Weight</b>	135 g (without mounting parts)
<b>Mounting</b>	Single mounting point in any orientation via centric mounting hole or optional tripod stand
Digitalization	
Sensor Type	Triaxial MEMS accelerometer
Sampling Rate	125 Hz - 4 kHz
Recording Length	1 – 60 seconds per data file
Recording Type	Event based or continuous
Frequency Range	DC (0 Hz) to Nyquist
Signal Output	
Measurement Unit	Selectable: - Acceleration [g] - Acceleration [mm/s <sup>2</sup> ] - Velocity [mm/s]
Signal Transformation	Selectable: - Automatic Sensor orientation and levelling - Fixed or pre-defined sensor orientation - Dynamic DC offset removal
Data Storage	
	Internal SD memory for data storage in offline mode and Data buffering in online operation
Data Transmission	
WLAN	IEEE 802.11b/g/n 1x1 SISO ( 2400 MHz –2484 MHz )
Mobile Radio	GSM/GPRS/EDGE ( 900 / 1800 MHz ) UMTS/HSPA+ ( 900 / 2100 MHz ) LTE ( 700 / 800 / 900 / 1800 / 2100 MHz )
Time Synchronization	
	Internal RTC / NTP / GPS
Power Supply	
	5V (max. 2A) Micro-USB connector
Environmental Conditions	
Temperature	-25 °C - +60°C
Humidity	0 – 95 %
Casing	IP 65

Subject to technical changes

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Disposal information:  
Our products are subject to the WEEE directive.  
DMT has committed itself to take back all  
electrical and electronic components sold  
and to dispose of them professionally.  
Please contact: [products@dm-t-group.com](mailto:products@dm-t-group.com)

WEEE Registration Number: **DE 25917380**



DIN EN ISO 9001  
DIN EN ISO 14001  
DIN ISO 45001

