

DMT WindSafe® VIB^{3D}

Cost-effective tower vibration measurement

Main features

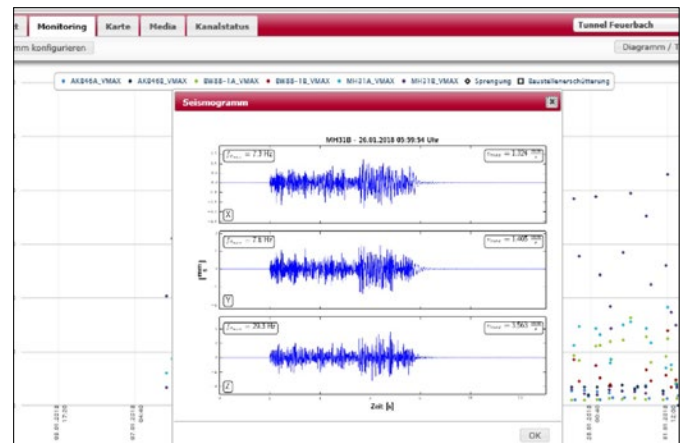
- Intelligent MEMS based 3-component acceleration sensor
- Continuous or triggered recording with individually adjustable trigger thresholds
- Straightforward installation supported by automatic levelling
- Data transmission by LTE / WLAN
- GPS/network time base
- Web-frontend integrated in DMT SAFEGUARD for system administration and parameter setup
- Cloud based data visualization and alarm messaging
- Enables cost effective deployment of large networks

Application

- Monitoring of WTG towers movements with independent data acquisition and telemetry
- Data acquisition for detailed load spectra analysis
- Structural monitoring of infrastructure and buildings
- General vibration monitoring



VIB^{3D}



DMT SAFEGUARD data publishing

| Technical specifications | |
|---|---|
| Size | 120 x 80 x 20 mm |
| Weight | 135 g (without mounting parts) |
| Mounting | single mounting point in any orientation via centric mounting hole |
| Digitalization | |
| Sensor Type | Triaxial MEMS accelerometer |
| Recording Length | 1 – 60 seconds per event or continuous recording |
| Sampling Rate | 1/4, 1/2, 1, 2, 4, 8, 16, 32, 64, 128, 256 ms |
| Frequency range | DC (0 Hz) to Nyquist |
| Measuring range | |
| | selectable 2 g, 4 g, 8 g |
| Signal output and filtering | |
| Measurand and unit of recorded signal may be selected between | <ul style="list-style-type: none"> - Acceleration [g] - Acceleration [m/s²] - Vibration velocity [mm/s] |
| Additional signal transformation and filtering options: | <ul style="list-style-type: none"> - Automatic sensor orientation and levelling - Fixed, pre-defined sensor orientation - As is / raw sensor signal - Dynamic DC-offset removal |
| Data storage | |
| | Internal SD memory slot > 4GB for data storage in the offline mode or for data buffering during 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 Synchronisation | |
| | NTP / GPS |
| Power Supply | |
| | 5V (max. 2A) Micro-USB connector |
| Environmental Conditions | |
| Temperature | -25 °C to +60°C |
| Humidity | 0 – 95 % |
| Housing | 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

WEEE Registration Number: **DE 25917380**

