

DMT RideGuard Unlimited Fun - with safety

Safety evaluation & predictive maintenance on amusement rides



Facts

- Vibration and movement measurement with calibrated MEMS sensors
- Monitoring of different types of amusement rides in large scale networks
- Worldwide access to the web-frontend integrated in DMT's IoT-platform SAFEGUARD
- Data Storage in TÜV Nord own cloud system
- AI based anomaly recognition
- Automated alarm functionality and data visualization
- Data transmission by LTE or WiFi
- Network or GPS time base
- Easy to install mobile device

Safety Evaluation

- Conformity with local regulations
- Impacts on humans
- Early damage recognition

Management Functions

- Performance overviews, statistical evaluations, KPIs

Predictive maintenance

- Vibration Analysis and condition monitoring on various amusement rides and associated facilities
- Reduction of unscheduled downtime
- Early maintenance planning



Technical specifications

Sensor size	120 x 80 x 20 mm (L x W x H)
Weight	135 g (without mounting parts)
Mounting	Mounting bracket adapted to the vehicle
Digitalization	
Sensor Type	Triaxial MEMS accelerometer
Sampling Rate	Up to 4 kHz
Frequency Range	DC (0 Hz) to Nyquist
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 Micro USB (via Battery Pack or on-board Power supply)
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-group.com

WEEE Registration Number: **DE 25917380**



DIN EN ISO 9001
DIN EN ISO 14001
DIN ISO 45001

