

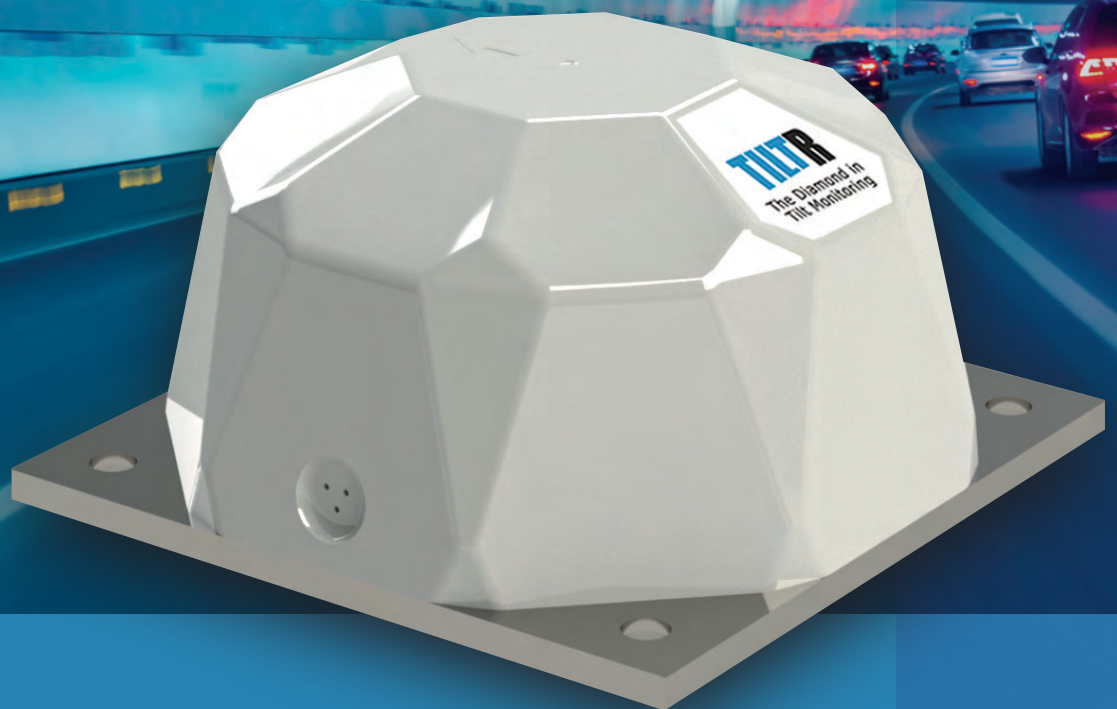


The Diamond in Tilt Monitoring

Early detection
for your
protection!

Precision structural health monitoring

IoT Tilt sensor



- omnidirectional 3D-XYZ tilt measurement
- resolution $< 0,001^\circ$
- long battery life up to fifteen years
- compact ruggedized design
- easy install
- adjustable intervals
- event wake-up trigger feature
- data buffering up to several days
- synchronized sampling for multiple sensors
- on demand data
- real time 24/7 online
- easily scalable
- upload via API
- OEM label options

Specifications IoT Tilt sensor

General specifications

Measurement range	Full 360° range in all XYZ directions
Resolution	Tilt measurement better than 0.001 °
Material	UV resistant ABS / Stainless steel
Dimensions (LxWxH)	116 x 116 x 80 mm
Weight	925 grams
Environmental IP67	Weather Resistant
Operating conditions	-40 °C ... +65 °C

Cellular communications

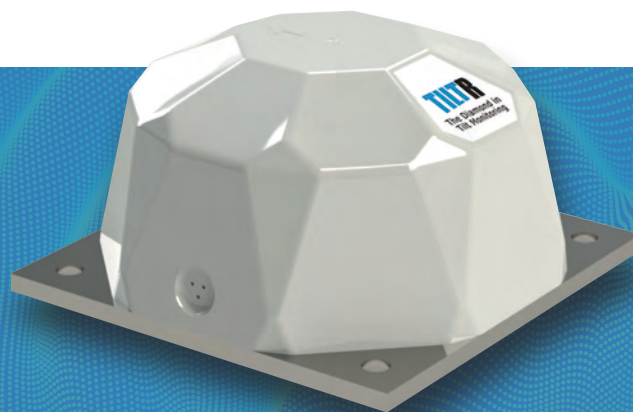
Modem	2-way LTE-M communication 300 kbps 3GPP-LTE and NB-IoT
Certification	Most regions, networks and LTE bands
Frequency bands	B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28 and B66
Tx power	Up to 23 dBm
Rx sensitivity	-108 dBm
Antenna	SMD Ceramic 5G/4G/3G/2G/LTE compatible

Battery

Battery Type	D-cell 3.6V 13Ah
Number of cells	Max 2 cells
Chemistry	Lithium Thionyl Chloride
Battery lifetime	ca 15 years with 24 readings per day

MonitoR Platform

Software Interface	MonitoR web-based dashboard (desktop & mobile), secure cloud-based architecture, 24/7 online monitoring
Project & sensor management	Group sensors per project, assign users and roles; adjust intervals, zero sensors and export data
Notifications & API	Automatic alerts on structural movements with adjustable thresholds; secure and scalable API for third-party integration



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