

CRACKR

3D Crack Monitoring Sensor

Early detection
for your
protection!

Precision crack monitoring in every direction

3D IoT Crack sensor



- information in time in X, Y and Z
- very accurate; < 0,1 mm on first 10 mm
- long battery life up to ten years
- compact design
- easy install
- also for measuring large cracks
- adjustable intervals
- 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 3D crack monitoring sensor

General specifications

Accuracy	3D position measurement better then 0.1 mm
Material	ABS
Dimensions (LxWxH)	233,1 x 75,5 x 35 mm
Weight	250 grams
Environmental	IP67 Weather Resistant
Operating conditions	-40 °C ... +65 °C
Measurement range	X-Y 40 mm, Z 10 mm
Accuracy	X-Y: up to 20 mm 0.1 mm > 20 mm 0.4 mm Z: full range 0.1 mm

Cellular communications

Modem	2-way LTE-M communication 300 kbps 3GPP-LTE
Certification	Most regions, networks and LTE bands world wide
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

Type	AA-size 3.6 V 3.6 Ah cell
Number of cells	Max 4 cells for maximum autonomous operation
Chemistry	Lithium Thionyl Chloride
Battery lifetime	ca 10 years with 12 readings per day

Bluebox™ Cloud Platform

Software Interface	Bluebox™ cloud based API interface for integration with client-side web back-end or framework
Cellular connectivity	Services Europe, North America, Asia
Device management	Features OTA firmware update, setpoint management, data post-processing and scaling, overall device health services



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A solution by
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