info@controlhire.com.au
www.controlhire.com.au

SPECIFICATION SHEET: CRACK SENSOR NODE

Physical Specifications

Dimensions	120 x 105 x 64 mm
Total Mass	448g (approx.)
Housing Material	PC plastic body and lid cover with a die-cast aluminium base
Internal Protection Marking	IP66
Mounting Options	M4 holes in bottom, Plates and brackets available for magnetic fixing, trackbed, stake and pole mounting,
Operating Temperature Range	-40°C to +80°C

Internal Battery

Battery Type	Lithium Thionyl Chloride, non-rechargeable, D-Cell
Nominal Voltage	3.6 V
Nominal Capacity	19000 mAh
Typical Battery Life	12 years at 30 minute reporting intervals

Crack Sensor Interface

Circuit Topology	Voltage Divider
Stimulus	2.5 V, 100 mA max
Resolution	0.0015% of full scale
Noise Level	0.005% of full scale (typical peak to peak)
Range (with internal antenna)	Up to 12 km depending on the environment Trackbed: 1 km Tunnel: 2 km Urban: 2.3 km Line of Sight: 12 km

Sampling & Reporting

Maximum Reporting Frequency	30 seconds
Sample Storage	Stores up to 75,000 sampling cycles in a circular buffer

Certifications

- Tested to conformity with all the essential requirements of the Radio Equipment Directive 2014/53/EU and RoHS Directive 2011/65/EU
- FCC Grant of Equipment Authorization
- ACB ISED Canada Certificate: 24373-LR3N
- RCM (Australia and New Zealand)