

VOIDSENSE[®]

Remote Rail Void & Temperature Monitoring System – VoidSense

The RailSense Remote Track Void & Temperature instrument provides real time vertical movement and rail temperature measurements.

Measurements are logged internally and sent via the mobile data network to a secure cloud server.

\bigotimes	Linear Displacement Sensor-based movement sensing – up to 100mm vertical displacement range with an accuracy of better than 0.2mm
Ø	Battery powered, with solar assistance can provide almost maintenance free operation
\oslash	Simple vibration and tamper resistant mounting
\oslash	Robust carrier plate that can withstand contact with ballast
\oslash	Secure communication of data over mobile data network
\oslash	On-Board GPS receiver providing location-based measurements
\oslash	Alarm event transmission (e-mail or SMS)
\oslash	Data time stamped & stored locally in the event of comms loss
\oslash	Environmental sealing to minimum IP67
Ø	Operational temperature range -20°C to +60°C
\oslash	Magnetic temperature sensor for direct attachment to rail

	Specifications		Notes
Y	Temperature	Operating Range -20°C to +60°C Measuring Range -25°C to +85°C Accuracy better than +/- 0.75°C	Configurable sample rate with Automatic Temperature Alert Messages Configurable
N	leasuring Range	100mm	100mm Sensor
	Resolution	0.01mm	Typical
	Repeatability	0.1mm	Typical
	Accuracy	0.2mm	Typically better than 0.2mm
	Communication	2G/4G/LTE	Best-Network Embedded SIM
	Position	<10m rms Multi GNSS	Multi GNSS
Power		Rechargeable Internal Li-Ion Cells	With Solar Panel
Battery Capacity		>24 Months	Without solar - Usage and configuration dependent
Battery Life Span		Indefinite with>5 Years	With Solar assistance Typical
	Charging	<14h for Full Charge	Using supplied charging lead
Dimensions		440 x 150 x 160mm	Excluding antenna & sensor
Weight		6.5 kg	Weight with sensor and foot attached
Weight While Attaching to Rail		4.7 kg	Sensor and foot detached while mounting to rail
Enclosure and Base Materials		Aluminium	Grade 6082
Data Storage		Data is stored internally until a successful transmission to the storage database is achieved	Internally 8Mb of Flash memory is installed, available for long duration logging
	Rail Clamp	2 x 10mm Hex. Allen	No-tool attachment under development
	Water Proofing	IP67 with IP67 breather	
	CE	CE Rated	

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