

# Track Monitoring System





The Track Monitoring System is intended for monitoring settlement and twist of railroad tracks which may be affected by nearby construction activity, such as tunnelling or adjacent excavation, or which are located near hazardous zones such as potential washout or landslide areas.

The Track Monitoring System consists of bussed settlement sensors mounted longitudinally along the track alignment, typically with a mount spacing of 2 or 3 meters and one, or several, track twist sensors mounted perpendicularly to the settleare based on the same MEMS devices used in the MEMS Tilt & Inclination Series of products from RST Instruments. These sensors are fully compatible with flexDAQ dataloggers and the GeoViewer data display and management software.



### **RST Instruments Ltd.**

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# 📀 specifications

15°
2 arc sec. 0.0006°) (0.01 mm/m)
0.0125% F.S. 0.002°) (0.03 mm/m)
0.0125% F.S. 0.002°) (0.03 mm/m)
EMS (Micro-Electro-Mechanical ystems) Inclinometer
0 to 85°C 40 to 185°F)

readouts + dataloggers		
ITEM	PART#	
Ultra Rugged Field PC	IC32000-14803	
Digital Interface for Ultra Rugged Field PC with software.	ELGL4010	
flexDAQ Dataloggers		

# 👁 ordering info

	PART#
	IC9000
2m: 20mm x 2mm	IC9010
3m: 20mm x 2mm	IC9012
ncludes dummy spacers	IC9020
Connectors	IC9030
Connectors	IC9031
Connectors	IC9032
ngth F x Bare Leads	IC9035-X
	IC9100
	MEMS Digital Bus: n & out with connectors, n & 2m: 20mm x 2mm ncludes dummy spacers Connectors Connectors Connectors Connectors MS Digital Bus nts, for wooden ties,

## 夜 applications

Railroad track monitoring in construction zones.

Railroad track monitoring in geologically unstable areas (prone to washout, landslide, etc.)

## 夜 features

High accuracy MEMS digital tilt sensors.

Single cable digital bus system.

String of settlement sensor can be as long as required.

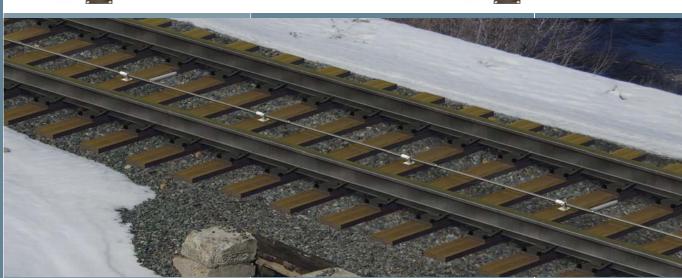
Available for wooden tie and concrete tie systems.

Easily adaptable to datalogging (FlexDAQ dataloggers).

Data can be viewed in near-real time in the GeoViewer software.







\*\* Contact RST for Concrete Tie Mounts.