

Horizontal MEMS Inclinometer System





The Digital Horizontal MEMS Inclinometer System measures settlement or heave under embankments, dams, roadways, storage tanks, and land-

Essentially being a horizontal version of the RST Digital MEMS Inclinometer System, settlement profile surveys are conducted by running the probe in an inclinometer casing installed horizontally rather than vertically. Wireless communication between the inclinometer control cable and the Ultra-Rugged Field PC ensures ease of use and reliability. A Horizontal In-place MEMS Inclinometer is also available, contact RST for details.

夜 general specifications

ITEM	DESCRIPTION	
Sensor Type	Uniaxial, MEMS (Micro-Electro- Mechanical Systems) Accelerometer	
Memory	>1,000,000 readings	
Measurement Range	±30° from Horizontal	
Repeatability	±0.002°	
Casing Size Required	70 mm (2.75") or 85 mm (3.34")	
Materials	Stainless Steel	
Readout	Ultra-Rugged Field PC	

RST Instruments Ltd. 11545 Kingston St.,

Maple Ridge, BC Canada V2X 0Z5

Telephone: 604 540 1100 Facsimile: 604 540 1005 Toll Free: 1 800 665 5599

info@rstinstruments.com

www.rstinstruments.com

痿 metric system: specifications

ITEM	DESCRIPTION	
Data Resolution	0.005 mm per 500 mm	
Repeatability	±0.002°	
System Accuracy	±2 mm per 25 m	
Wheel Base	500 mm	
Probe Diameter	25.4 mm	
Probe Length including lifting eye	708 mm	
Temperature Rating	-40 to 70°C	
Weight	1.091 kg	

🐼 imperial system: specifications

ITEM	DESCRIPTION	
Data Resolution	0.00002 ft. per 2 ft.	
Repeatability	±0.002°	
System Accuracy	±0.1 in. per 100 ft.	
Wheel Base	24 in.	
Probe Diameter	1 in.	
Probe Length including lifting eye	32.19 in.	
Temperature Rating	-40 to 180°F	
Weight	2.4 lbs.	

🐼 imperial sustem: orderion info

William adarem: or oer mg illia				
ITEM	PART#			
100 ft. Complete System with 2 ft. Probe	IC32110H			
150 ft. Complete System with 2 ft. Probe	IC32115H			
200 ft. Complete System with 2 ft. Probe	IC32120H			
250 ft. Complete System with 2 ft. Probe	IC32125H			
300 ft. Complete System with 2 ft. Probe	IC32130H			
500 ft. Complete System with 2 ft. Probe	IC32150H			
Digital Horizontal 2 ft. Inclinometer Probe	IC32202H			
Inclinalysis™ Digital Inclinometer Analysis Software with USB Key	IC35600			
Pull Cable	IC7300			
Pull Cable Reel	WL046617			
Cable Return Pipe	EP050410			
Return Pipe Coupling	EPFI429005			

🕟 metric system: ordering info

	•	-
ITEM		PART#
30 m Complete System	with 0.5 m Probe	IC32003H
50 m Complete System	with 0.5 m Probe	IC32005H
60 m Complete System	with 0.5 m Probe	IC32006H
75 m Complete System	with 0.5 m Probe	IC32075H
100 m Complete System	m with 0.5 m Probe	IC32010H
150 m Complete System	m with 0.5 m Probe	IC32015H
Digital Horizontal 0.5 m	n Probe	IC32205H
Inclinalysis™ Digital Inclinometer Analysis Software with USB Key		IC35600
Pull Cable		IC7300
Pull Cable Reel		WL046617
Cable Return Pipe		EP050410
Return Pipe Coupling		EPFI429005

痿 additional equipment

ITEM	PART#
3.34 in./85 mm Snap Seal Inclinometer Casing Dead-end Pulley	ICA0063-1
3.34 in./85 mm Glue & Snap Inclinometer Casing Dead-end Pulley	ICA0063-2
2.75 in./70 mm Snap Seal Inclinometer Casing Dead-end Pulley	ICA0064-1
2.75 in./70 mm Glue & Snap Inclinometer Casing Dead-end Pulley	ICA0064-2

🐼 ordering options

Longer probe lengths are available, please contact a member of our sales team at RST Instruments Ltd. to discuss your requirements.

痿 applications

Monitor settlement of heave under embankments, dams, roadways, storage tanks, and landfills

Observation of ground movements caused by construction and excavation, such as those involved with tunneling.

🌀 features

Digital precision and efficient data collection with a high-level user interface that has instant USB synchronization with office computers.

Probe may be used with RST's Vertical In-place MEMS Inclinometer System.

Probe maybe purchased with or without a system.

MINING. ENVIRONMENTAL. STRUCTURAL

GEOTECHNICAL.