



	PRODUCT CATEGORY:
	INCLINOMETERS + TILT SENSORS

Digital Horizontal Inclinometer System



The Digital Horizontal Inclinometer System measures settlement or heave under embankments, dams, roadways, storage tanks, and landfills.

Essentially being a horizontal version of the RST Digital Inclinometer System (separate brochure), 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 Inclinometer (separate brochure) is also available, contact RST for details.

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.

ORDERING OPTIONS

Longer probe lengths are available, please contact a member of our sales team at RST (sales@rstinstruments.com) to discuss your requirements.

METRIC: ORDERING

ITEM	PART #
30 m System with 0.5 m Probe	IC32003H
50 m System with 0.5 m Probe	IC32005H
60 m System with 0.5 m Probe	IC32006H
75 m System with 0.5 m Probe	IC32075H
100 m System with 0.5 m Probe	IC32010H
150 m System with 0.5 m Probe	IC32015H
Digital Horizontal 0.5 m Probe	IC32205H
Inclinanalysis™ Digital Inclinometer Analysis Software with USB Key	IC35600
Pull Cable on a Reel	WLS-IC35805
Cable Return Pipe	EP050410
Return Pipe Coupling	EPFI429005

IMPERIAL: ORDERING

ITEM	PART #
100 ft. System with 2 ft. Probe	IC32110H
150 ft. System with 2 ft. Probe	IC32115H
200 ft. System with 2 ft. Probe	IC32120H
250 ft. System with 2 ft. Probe	IC32125H
300 ft. System with 2 ft. Probe	IC32130H
500 ft. System with 2 ft. Probe	IC32150H
Digital Horizontal 2 ft. Inclinometer Probe	IC32202H
Inclinanalysis™ Digital Inclinometer Analysis Software with USB Key	IC35600
Pull Cable on a Reel	WLS-IC35805
Cable Return Pipe	EP050410
Return Pipe Coupling	EPFI429005

> 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.

> BENEFITS

- ✓ **Increase Safety**
- ✓ **Increase Productivity**
- ✓ **High Accuracy**
- ✓ **High Reliability**

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 ²



Contact RST for Details

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