

	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 Rugged Handheld Device ensures ease of use and reliability.

## > APPLICATIONS

Monitor settlement or 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 MEMS Inclinometer System accessories (cable, reel, Rugged Handheld Device)

## > BENEFITS

✓ Increase Safety

✓ High Accuracy

✓ Increase Productivity

✓ High Reliability

GENERAL SPECIFICATIONS		ACCESSORIES	
ITEM	DESCRIPTION	ITEM	PART #
Sensor Type	MEMS (Micro-Electro-Mechanical Systems) Accelerometer	Inclanalysis™ Digital Inclinometer Analysis Software with USB Key	IC35600
Measurement Range	±30° from Horizontal	Pull Cable on a Reel	WLS-IC35805
Casing Size Required	70 mm (2.75") or 85 mm (3.34")	Cable Return Pipe	To be sourced locally, 0.5" PVC
Materials	Stainless Steel	Inclinometer Casing	Refer to separate brochure
Readout	Rugged Handheld Device		

## ADDITIONAL EQUIPMENT

ITEM	PART #
3.34 in./85 mm Snap Seal Inclinometer Casing Dead-end Pulley	ICSC3DEP
3.34 in./85 mm Glue & Snap Inclinometer Casing Dead-end Pulley	ICGC3DEP
2.75 in./70 mm Snap Seal Inclinometer Casing Dead-end Pulley	ICSC2DEP
2.75 in./70 mm Glue & Snap Inclinometer Casing Dead-end Pulley	ICGC2DEP

### 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
Temp. Rating	-40 to 60°C
Weight	1.091 kg

### METRIC: ORDERING

ITEM	PART #
30 m System with 0.5 m Probe	IC32003H
50 m System with 0.5 m Probe	IC32005H
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

### 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 140°F
Weight	2.4 lbs.

### 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
300 ft. System with 2 ft. Probe	IC32130H
500 ft. System with 2 ft. Probe	IC32150H
Digital Horizontal 2 ft. Inclinometer Probe	IC32202H