

Digital Horizontal Inclinometer System

Description

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.

DIGITAL HORIZONTAL INCLINOMETER SYSTEM SPECIFICATIONS

ITEM	SPECIFICATION
Sensor Type	MEMS (Micro-Electro-Mechanical Systems) Accelerometer
Measurement Range	$\pm 30^\circ$ from Horizontal
Casing Size Required	70 mm (2.75") or 85 mm (3.34")
Materials	Stainless Steel
Readout	Rugged Handheld Device

METRIC SYSTEM SPECIFICATIONS

ITEM	SPECIFICATION
Data Resolution	0.005 mm per 500 mm
Repeatability	$\pm 0.002^\circ$
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

IMPERIAL SYSTEM SPECIFICATIONS

ITEM	SPECIFICATION
Data Resolution	0.00002 ft. per 2 ft.
Repeatability	$\pm 0.002^\circ$
System Accuracy	± 0.1 in. per 100 ft.
Wheel Base	24 in.
Probe Diameter	1 in.
Probe Length (including lifting eye)	32.19 in.

Temp. Rating
Weight

-40 to 140°F
2.4 lbs.

SPECIFICATIONS