

Vibrating Wire Liquid Settlement System

Description

The RST Vibrating Wire Liquid Settlement System SSVW105 monitors settlement or heave in soils and different types of man-made structures such as embankments, and earth and rockfill dams. The system consists of a fluid body, reservoir, flexible tubing, and sensor and readout unit.

A vibrating wire pressure sensor is attached to a settlement plate located at the point to be monitored, and connected via two liquid-filled tubes extending laterally to a reservoir located on stable ground. The sensor measures the hydraulic head of liquid between the sensor and reservoir locations. The liquid filled tubes can also be flushed.

VIBRATING WIRE LIQUID SETTLEMENT SYSTEM SPECIFICATIONS

ITEM	SPECIFICATION
Standard Ranges	7, 17, 35 m
Resolution/Sensitivity	0.05% FS
System Accuracy	0.1% FS
Temperature Range	-20°C to +80°C

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ITEM	SPECIFICATION
Power	12 VDC rechargeable battery. 100-240 VAC to 12 VDC charging system with extension cord.
Dimensions	50 D x 40 W x 19 H cm (19.68 W x 15.74 D x 7.48 H in.)
Weight	12 kg

SPECIFICATIONS