

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 rockfil 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.

| ITEM | SPECIFICATION |
|---|----------------|
| Standard Ranges | 7, 17, 35 m |
| Resolution/Repeatability | 0.025% FS |
| System Accuracy | 0.1% FS |
| <i>System accuracy specification dependent on site conditions</i> | |
| Temperature Range | -20°C to +80°C |

D AERATOR SPECIFICATIONS

| 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