



Vibrating Wire Liquid Settlement System



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The RST Vibrating Wire Liquid Settlement System model SSVW105 is developed to monitor 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.

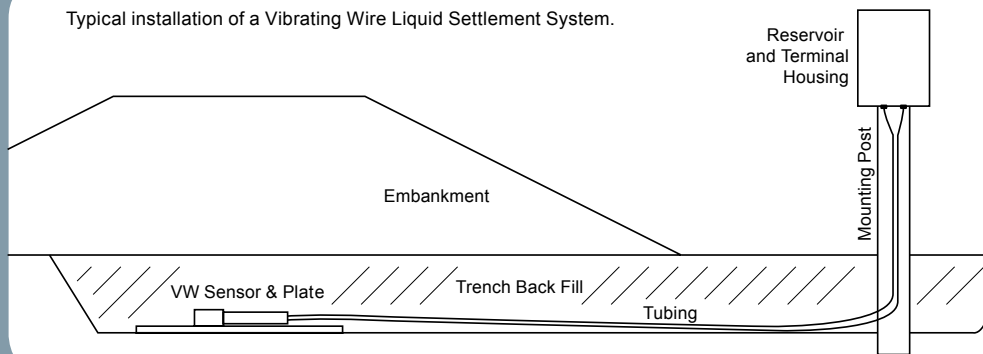
A vibrating wire pressure sensor is attached to a settlement plate located at the point to be monitored, and connected via two liquid-filled tubes, extending laterally, to a reservoir located on stable ground. The sensor measures the hydraulic head of liquid between the sensor and reservoir locations.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

Standard configuration includes one reservoir for each cell. In applications where settlement of two or more points along the same monitoring profile is of interest, RST provides systems with multi-position reservoirs.

specifications

ITEM	DESCRIPTION
Standard Ranges	7, 17 m (20, 50 ft.)
Resolution/Sensitivity	0.05% FS
System Accuracy	0.1% FS
Temperature Range	-20°C to +80°C

Typical installation of a Vibrating Wire Liquid Settlement System.



Typical enclosure box.

ordering info

ITEM	PART #
Vibrating Wire Liquid Settlement System	SSVW105
Settlement Plate	SSSP105P
Vented Reservoir - 1 Cell	SSSP105RV
Vented Reservoir - 4 Cells	SSSP105RV-4
Vented Reservoir - 5 Cells	SSSP105RV-5
Vented Reservoir - 6 Cells	SSSP105RV-6
Vented Reservoir - 7 Cells	SSSP105RV-7
Vented Reservoir - 9 Cells	SSSP105RV-9
Cable	EL380004
2x1/4" PE Tubing PVC Jacket Water/Glycol	SS003000

RST Instruments Ltd. reserves the right to change specifications without notice.