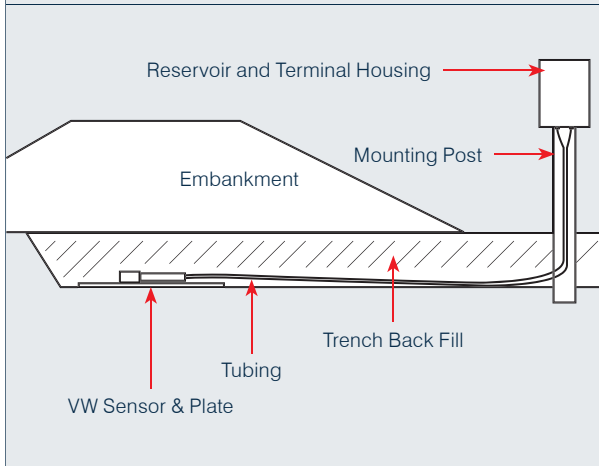




Typical Vibrating Wire Liquid Settlement System shown with the vibrating wire sensor fixed to the settlement plate. An enclosure box at left houses the reservoir.



Optional Push-in Settlement Cell



Typical installation of a Vibrating Wire Liquid Settlement System

	PRODUCT CATEGORY:
	SETTLEMENT SYSTEMS

# Vibrating Wire Liquid Settlement System

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.

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. An optional Push-in Settlement Cell is also available.

> APPLICATIONS	ORDERING	
Preload consolidation monitoring.	<b>ITEM</b>	<b>PART #</b>
Embankment construction control.	Vibrating Wire Liquid Settlement System	SSVW105
Subsidence monitoring.	Settlement Plate	SSSP105P
Monitor settlement or heave.	Vented Reservoir - 1 Cell	SSSP105RV
> FEATURES	Vented Reservoir - 4 Cells	SSSP105RV-4
Tubes ship pre-filled with water/glycol.	Vented Reservoir - 5 Cells	SSSP105RV-5
Pre-tested and calibrated.	Vented Reservoir - 6 Cells	SSSP105RV-6
> BENEFITS	Vented Reservoir - 7 Cells	SSSP105RV-7
✓ Increase Safety	Vented Reservoir - 9 Cells	SSSP105RV-9
✓ High Accuracy	Cable	EL380004
✓ High Reliability	2x1/4" PE Tubing PVC Jacket Water/Glycol	SS003000
✓ Custom Options	Single cell reservoir with enclosure	SSSP105RV-VWENC
	Custom enclosure for reservoir and optional data logger	SSSP105RV-ENC
	De-aired, 50/50 water/glycol mixture (1 L)	SSSP105M
	<b>OPTIONAL</b>	
	Push-in Settlement Cell	SSVW105-P
	D Aerator SS6000 - Liquid Settlement System De-airing Unit	SS6000
	Multi-position Reservoirs	Contact RST

SPECIFICATIONS	
ITEM	SPECIFICATION
Standard Ranges	7, 17 m (20, 50 ft.)
Optional Range	2 m (with digital output sensor)
Resolution/Sensitivity	0.05% FS
System Accuracy	0.1% FS
Temperature Range	-20°C to +80°C