

Precision Liquid Settlement Array

Description

The Precision Liquid Settlement Array provides reliable, wireless, real-time remote monitoring of settlement and heave which may occur at excavation sites, tunneling projects, underground openings and related applications. It is ideal for monitoring under fills, preloads, embankments and grouting near structures. Users have real-time access through an internet connection on a PC and can also receive updates through email at chosen intervals, when used with an RST data logger.

PRECISION LIQUID SETTLEMENT ARRAY SPECIFICATIONS

ITEM	SPECIFICATION
Measuring Ranges	0.6, 1.8 and 3.0 m
Maximum Error (over full temperature and pressure range*)	1 mm - for SS5010 at 0.6 m range (contact RST for additional error values)
Supply Voltage	7 - 15 Volt
Temperature Range	-40°C to +50°C
Mounting Plate	Aluminum
Housing	Aluminum
Pressure Lines	XLPE/LDPE
Digital Data Cable	4-wire (4 x 1 mm ²)
Tubing - for liquid	12.7 O.D.; 8.6 I.D. mm
Tubing - for air	6.3 O.D.; 4.5 I.D. mm
Sensor Body Dimensions (excluding glands & tube ports)	76.2 x 111 H mm
Sensor Weight	1 kg
Mounting Plate Size	38 W x 6.3 D x 229 H mm
Mounting Plate Weight	106 g
Long Term Stability	±0.1% FSO/year

* Sensors are calibrated over full temperature and pressure ranges for 24 hours at time of manufacturing. * Calibration results can be viewed on the calibration sheet that will ship with your system.

SPECIFICATIONS