Model SSG

APPLICATIONS

The SSG soil settlement gage is used to measure settlement or heave at a discrete location in soils. Applications include:

- Measuring consolidation of foundation soils
- Measuring settlement of soil within an embankment
- Determining the effectiveness of soil improvement techniques such as wick drains, dynamic compaction and preloading
- Measuring settlement of tank bases
- Monitoring mine induced subsidence

DESCRIPTION

The SSG consists of a vibrating wire or fiber-optic pressure transducer housed in a corrosion-resistant stainless steel body. The housing can be attached to a base plate and connected to a reference station by a twin tubing filled with water (or anti-freeze solution) and fitted with stainless steel connectors. The reference station consists of a sealed liquid-filled reservoir open to atmospheric pressure and located at a known elevation. The settlement or heave is measured relatively to the elevation of the reservoir.

The SSG is robust and stable. It can be installed in boreholes, standpipes, soil or concrete. The settlement gage can also be attached to structures for monitoring settlement.

To ensure maximum performance, the twin tubing should be flushed at regular intervals to remove air bubbles, and data should be compensated for temperature changes and changes in atmospheric pressure.

For best results, de-aired water or antifreeze solution is recommended.



FEATURES

- EASY TO READ
- **WIDE RANGE**
- ROBUST DESIGN FOR LONG-TERM MONITORING APPLICATIONS.
- MANUFACTURED WITH CORROSION-RESISTANT **MATERIALS**
- FREQUENCY SIGNAL EASY TO PROCESS AND TRANSMIT OVER LONG DISTANCES
- FIBER-OPTIC TRANSDUCER AVAILABLE THAT OFFERS IMMUNITY TO EMI/RFI/LIGHTNING AND HIGHER ACCURACY AND RESOLUTION





SPECIFICATIONS

¹ , 10 ¹ , 20, 35, 50, 70 m
, , = 0, 0 0, 0 0, . 0
ibrating wire or fiber optic
5 x Range
0.5% F.S. (±0.1% FS optional)
025% F.S. (Min.)
0.1% F.S. / °C
VC and ABS
tainless steel
/ater (optional antifreeze solution)
$k\Omega$ (see model TH-T) - with vibrating wire transducers only
RC-41A(P), IRC-390, CFO-3STD, CFO-9RF

^{1:} With IRC-41 AV cable for VW transducers and CFO-7VT for FO transducers

Note: Please refer to FOP data sheet for specifications of FO pressure transducers.

ORDERING INFORMATION

Please specify:

- Model
- · Cable type and length
- Twin tubing length
- · Fluid type: water or antifreeze solution
- If length of cable > 300 m, contact ROCTEST TELEMAC for adequate tubing
- Readout instruments: MB-6T(L), SENSLOG

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^{2:} Calibrated accuracy of the pressure transducer.