#### **Model 4650 Settlement System**



#### **Applications**

The Model 4650 is designed for remote measurement of the settlement of a point in or below fills, surcharges, embankments, etc. Systems with tube lengths of up to 300 m have been used successfully to measure settlements in earth dam embankments.

## **Operating Principle**

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

## **Technical Specifications**

7, 17 m
0.025% F.S.
±0.1% F.S.
-20°C to +80°C
(reservoir) 152 × 51 mm, (sensor) 191 × 35 mm

of liquid between the sensor and

A vented cable runs from the sensor

to the remote readout location and

barometric pressure fluctuations do

connects to the reservoir so that

reservoir locations.

Limitations

**Advantages and** 

not affect the readings.

that might form.

The liquid-filled tubes can be

flushed to remove any air bubbles

It is possible to perform in-situ

bration and zero stability.

checks at any time on both the cali-

<sup>1</sup>Other ranges available on request.

<sup>2</sup>Laboratory accuracy. Total system accuracy is subject to site-specific variables.



• Model 4650 installation for the remote measurement of subsurface settlement beneath a large embankment.

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**GEOKON, INCORPORATED** 48 Spencer Street Lebanon, NH 03766 • USA phone: 1 · 603 · 448 · 1562 email: info@geokon.com web: www.geokon.com





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