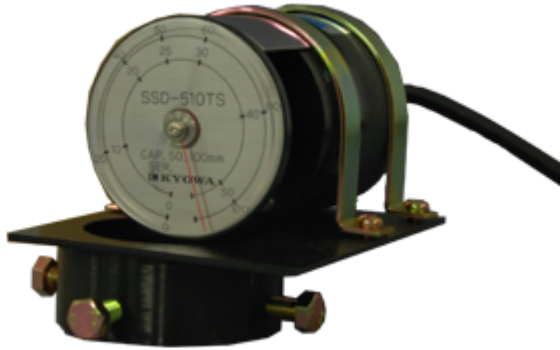


# SSD-510TSA

## Elongation Measuring System



### Summary

Measure displacement of ground surface and output signals to indicator, recorder or alarm. Installed in locations where landslide or collapse is suspected, this system measures displacement of the ground surface. The potentiometer sensor detects fluctuation of ground surface and an invar line extended from the fixed pile transmits the ground surface displacement, which is converted to a corresponding voltage by rotating the displacement transmission shaft. The electrical output can be connected to various instruments for indication, recording or alarm. A desired rated capacity can be selected from 50 or 100 mm.

### Specifications

#### Performance

**Rated capacity** 50 or 100 mm (selected by rudder wheel)

**Nonlinearity** Within  $\pm 1\%RO$

**Hysteresis** Within  $\pm 1\%RO$

**Rated output** 1.25mV/V ( 2500 $\mu$ m/m) or more

#### Environmental characteristics

**Safe temperature range** -10 to 70°C

**Compensated temperature range** 0 to 60°C

**Temperature effect on zero balance** Within  $\pm 0.1\%RO/^{\circ}C$  ( \* )

**Temperature effect on output** Within  $\pm 0.1\%^{\circ}C$  ( \* )

### Electrical Characteristics

<b>Detection method</b>	Potentiometer-type
<b>Safe excitation voltage</b>	10V AC or DC
<b>Input resistance</b>	350Ω±2%
<b>output resistance</b>	350Ω±5%
<b>Cable</b>	4-conductor (0.5mm <sup>2</sup> ) chloroprene shielded cable, 8 mm diameter by 1 m long, bared at the tip

### Mechanical Properties

<b>Safe overload</b>	110%
<b>Weight</b>	Approx. 2.4kg ( mainframe )
<b>Dimensions</b>	See drawing
<b>Wrapping</b>	Chromate-plated
<b>Standard accessories</b>	movable pile Invar wire fixture

### Mechanical Properties

<b>Degree of protection</b>	IP64 (IEC 60529)
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