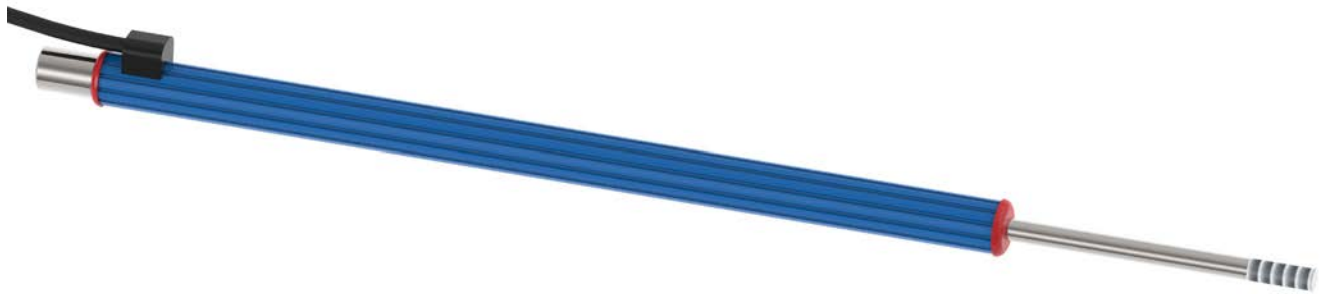


---

## LP Displacement Gauge LPDT-5510

Geosense® LPDT-5510 series of spring-loaded linear potentiometer displacement gauges cover displacement ranges up to 75mm. They can be incorporated into products such as crack meters, displacement gauges and rod extensometers



# Linear Potentiometer Displacement Gauge LPDT-5510

## Overview



### APPLICATIONS

For use with:

Crack Meters

Borehole Rod Extensometers

Displacement Gauges

### FEATURES

Reliable long-term performance

Rugged, suitable for demanding environments

High accuracy

Low noise output signal

Ultra-slim 13mm

Geosense® LPDT-5510 series of spring-loaded linear potentiometer displacement gauges cover displacement ranges up to 75 mm.

They can be incorporated into many displacement products such as rod extensometers, crack meters and displacement gauges.

Constructed from aluminium alloy and stainless steel, they are lightweight but robust making them ideal for the harsh environments found within civil engineering.

The data from the Geosense® LPDT-5510 can be monitored by means of a portable read-out unit or connected to an automatic data acquisition system.



# Linear Potentiometer Displacement Gauge LPDT-5510

## Specifications

### DIMENSIONS

Model	Range (mm)	Length Compressed (mm)	Length Extended (mm)	Diameter (mm)
LPDT-5501	25	127	154	13
LPDT-5502	50	152	204	13
LPDT-5503	75	177	254	13

### PERFORMANCE

Resolution*	0.01% FS with MP12 readout
Accuracy	< ±0.20% FS
Repeatability	<0.01mm
Nonlinearity	≤0.5% FS

### ELECTRICAL

Technology	Conductive plastic
Voltage	6-30VDC
Output	4-20mA
Cable	26 AWG x 3 conductor, FDR 25 sleeve

### MECHANICAL

Temperature range	-30 °C +125 °C
Protection class	IP67
Body Material	Anodised aluminium
Enclosure Shaft	Stainless steel
Enclosure	IP67

\* Readout dependent, may alter with other readout types.

### ORDERING INFORMATION

Range
Cable length
Readout



Geosense Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England

[www.geosense.co.uk](http://www.geosense.co.uk) e [sales@geosense.co.uk](mailto:sales@geosense.co.uk) t +44(0)1359 270457

Specifications are subject to change without notice and should not be construed as a commitment by Geosense. Geosense assumes no responsibility for any errors that may appear in this document. In no event shall Geosense be liable for incidental or consequential damages arising from the use of this document or the systems described in this document. All Content published or distributed by Geosense is made available for the purposes of general information. You are not permitted to publish our content or make any commercial use of our content without our express written consent. This material or any portion of this material may not be reproduced, duplicated, copied, sold, resold, edited, or modified without our express written consent.

V1.2 06/2023