

Lab. Instruments



Description

Model 4530 miniature piezometer and model 4950 miniature earth pressure cell are a very useful product when need scale model test in research institute with engineering works connection learning of university.

This product becomes corrosion treatment by sensor that foil strain gage attaches by fixing accuracy and high authoritativeness and dynamic measure and long distance transmission are available.

The readout

It is electric resistance sensor that generates mV and can be used by connecting with strain meter or data logger that can read strain

- ACE-600A (FSG readout)
- ADL-200A (Smart logger)

Specification

Model	4530 (mini piezometer)	4950 (mini earth pressure cell)
Sensor element	FSG sensor (foil strain gage)	
Range	1~10kg/cm ²	
Accuracy	±0.5% FSR	
Nonlinearity	±1.0% FSR	
Over range capacity	150% FSR	
Rating output	1 mV/V (1,000 × 10 ⁻⁶)	
Resistance	350Ω	
Insulation resistance	More than 100 MΩ / 500V	
Dimensions	∅20mm × 39mm	∅15mm × 7.5mm
Filter	50 micron sintered stainless filter	
Operating temperature	-30~80°C	
Weight	0.1kg	0.01kg
Material	Stainless steel, high grade epoxy potting	
Signal cable	∅3mm, 0.14mm ² × 4C shielded PVC cable	∅3mm, 0.05mm ² × 4C Teflon wire

(Note) The accuracy depends on air entry in the filter, compensating thermal zero shift and difference in air pressure

Applications

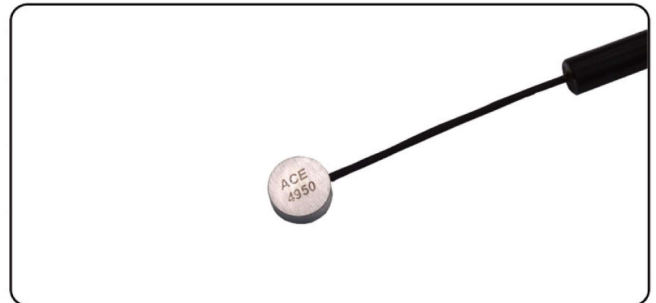
[Model 4530 / miniature piezometer]

The outward shape of this miniature piezometer is ∅20 × 39mm and waterproofing. This is most suitable for model experiments and study objects.



[Model 4950 / miniature earth pressure cell]

Model 4950 (exterior diameter : ∅15mm) is mini type earth pressure cell that is manufactured to use it inside laboratory or small place.



Ordering information

- Pressure range
- Keeping readout unit
- Cable length