

Long range crackmeter



Description

Model 5900 long range crackmeter has the wire at rotary potentiometer and spring driving part.

The wire is drawn as regular tension, so it measures the detail displacement of the rock slope, the railway slope, and the retaining wall of apartment.

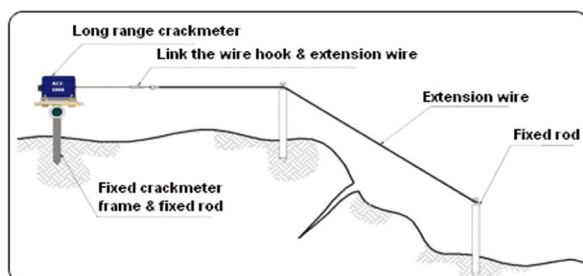
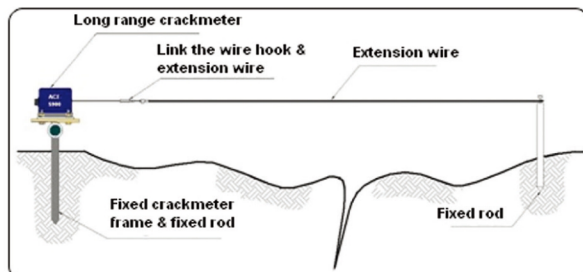
Model 5900 long range crackmeter is manufactured with the aluminum and nylon plastic for waterproof and rustproof.

If the displacement at the crack is happened, the wire connected to the displacement of crack is changed position and it is rotated the rotary potentiometer.

And the mechanical displacement is indicated as voltage.

Features

- Stability and confidence with which it can be operated in severe environment
- Adjustment of measure range at the site
- Easy installation
- Semi permanent measurement



Applications

- Measurement of displacement of the concrete construction joint
- Measurement of displacement of the abutment or pier joint
- Measurement of displacement of joint when constructing bridge

The readout

It is connected to the system such as the voltage readout units, or data logger as it is the electrical sensor that output mV.

- ACE-1500 (MEMS readout)
- ACE-900 series (MEMS mini logger)
- ADL-200A (Smart logger)

Ordering information

- Application field
- Cable length
- Keeping readout unit

Specification

Model	5900			
Application	Surface mount type			
Applied sensor	Potentiometer			
Range	500mm	1000mm	2000mm	3000mm
Rating output	1k Ω			
Resolution	Infinite (depending on the readout)			
Accuracy	$\pm 0.1\%$ FSR			
Nonlinearity	$\pm 0.5\%$ FSR			
Operation temperature	$-30\sim 80^{\circ}\text{C}$			
Input voltage	3~12 VDC			
Wire tension	8N (8kg m/s ²)			
Material	Aluminum, nylon plastic case			
Dimension of wire	Stainless steel wire $\varnothing 0.5\text{mm}$			
Materials	Aluminum, nylon case			
Weight (kg)	1.4	1.7	2.0	2.6

