

Digital tape extensometer



Description

Model 2350D tape extensometer is mainly used to quickly and accurately measure small displacement between both walls, which are in opposite sides in excavation, tunnel, and mine's open-cut section, or between crown side and bottom side. Besides them, it is also used to measure deformation of a structure or a support or to measure movement of unstable slope. Digital type tape extensometer consists of a steel tape, a tension adjusting sleeve, a moving hook used in adjusting tension, and a digital gauge's scale.

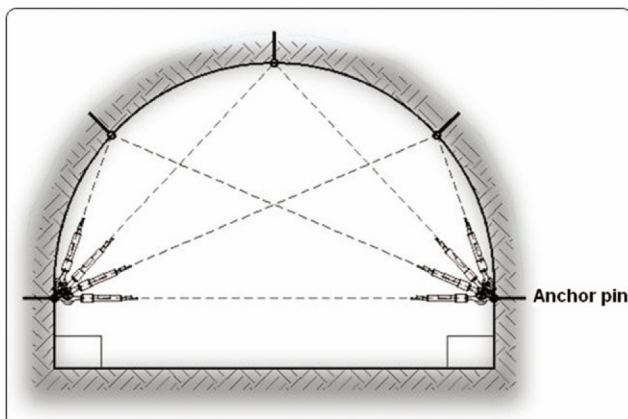
The tension adjusting sleeve is the one to read the digital gauge's scale by adjusting tension forced on a tape after installing it between two measuring points.

The moving hook is the one connected to the end edge of the steel tape for hanging the steel tape on an anchor pin or a crown settlement pin.

The digital gauge is attached on an aluminum main body's insides and when it makes a straight line with an index mark under the condition of forcing tension on the steel tape, it is the one to read the length of gauge through a transparent plastic cover. Its integral part on tape length reads a scale marked on the tape and a decimal point reads a scale of the digital gauge. The steel tape's standard is 20m and also, you can use it by selecting 30m.

Features

- Install high-accuracy digital gauge of 0.01mm resolution
- Designed as compact, strong, lightweight
- Structure to give easy adjustment of tape tensile
- Window cover of sliding type (moving to right and left)



[Measurement drawing of the tunnel convergence displacement]

Applications

Digital tape extensometer is a measuring instrument to measure small relative displacement by connecting two measuring points by using the steel tape and its normal usage is as follows:

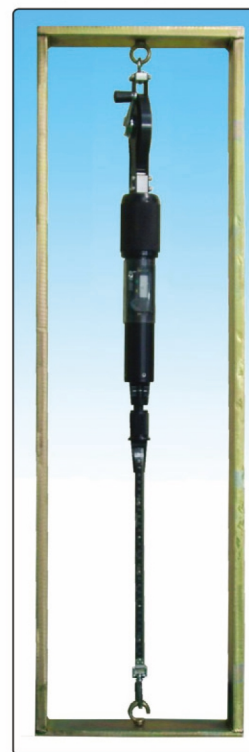
- Unstable slope's deformation, bridge's support system, and structure's displacement measuring
- Measure convergence applied to tunnel's inside wall
- Measure the amount of deformation in excavating underground space

Specification

Model	2350D	
Measuring range	Standard 20m, optional 30m	
Digital gauge resolution	0.01mm	
Iteration accuracy	±0.1mm	
Digital gauge maker	Mitutoyo's in Japan	
Steel tape	Standard	0.20t × 13mm
	Pitch	50mm equal-interval
	Linear expansion coefficient	11.3 × 10 ⁻⁶ /°C
Material	Aluminum process / anodizing treatment	
Dimensions	Ø54 × 620mm	
Weight	1.5kg	
Accessories	Hand bag, 2 window covers, and 1 battery	

Ancillary equipments

- Anchor pin (reference I-bolt adhesion)
- Calibration frame (2350DF)



[Model 2350DF calibration frame]