

## Description

VW Rod Extensometer is useful to measure the displacement of ground in the tunnel or mining and cable tunnel, etc. caused by the stress concentration by excavation work. If displacement is caused by rock behaviors or relaxation that is transmitted to the VW sensor and the vibration wire is magnetized by the magnetic coil due to the tensile force changed and the vibration wire will generate the resonant frequency and then this frequency will be transmitted to the output device to display the engineering unit and operator can check displacement speed, ratio, volume and area.



## Feature

VW rod extensometer range is 50mm and each sensor is calibrated by exclusive calibrator to improve reliability. High precise Temp. sensor is built-in to compensate thermal expansion coefficient and water-proof and corrosion is treated.

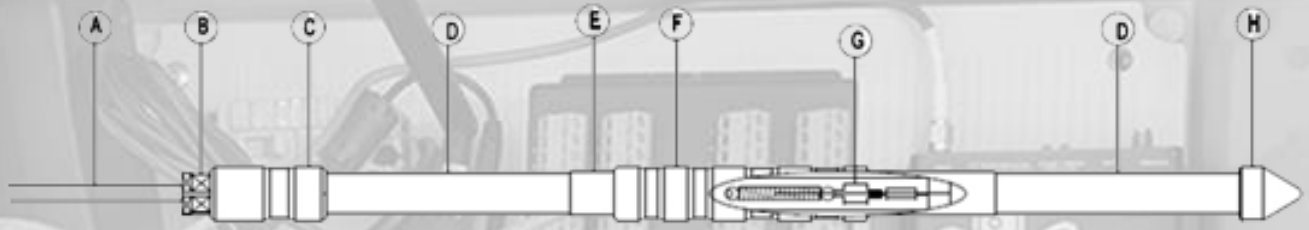
## Component

- \* Rod extensometer main body
- \* Cable
- \* Hydraulic anchor(option)

## Specification

Model	SJ-5700(sliding anchor type)	SJ-5701(embedment)
<b>Sensor type</b>	VW Type Sensor	
<b>Measurement range</b>	1,400 ~ 3,500Hz (0 ~ 50mm)	
<b>Measurement Frequency</b>	Min 1,000 ~ Max 4,000με(±30mm)	
<b>Resolution</b>	0.01mm	
<b>Sensor accuracy</b>	±0.25mm	
<b>Non-linearity</b>	±0.5% FSR	
<b>Working temp</b>	-20°C ~ 50°C	
<b>Temp sensor working range</b>	RTD : -45 ~ 100°C Thermistor : -30 ~ 80°C	
<b>Temp sensor accuracy</b>	RTD : ±0.7°C Thermistor : ±1°C	
<b>Thermal expansion coefficient</b>	11 × 10 <sup>-6</sup> /°C	
<b>No. of anchor for measurement</b>	4 Points	
<b>Minimum hole diameter</b>	Ø38mm or above	
<b>Material of Sensor parts</b>	Stainless special steel, alloy steel (coated)	
<b>Material of anchor rod</b>	Stainless steel (Φ 4 x Φ 6mm)	
<b>Material anchor rod cover</b>	Nylon Tube (Φ 8 x Φ 10mm)	
<b>Signal cable</b>	Ø10mm, 0.235mm <sup>2</sup> x 8C Shield PVC SYS cable 3m	

※ The product spec is subject to change without prior notice in order to enhance the product's quality.



<b>A</b>	Cable
<b>B</b>	Connector
<b>C</b>	Head
<b>D</b>	Pipe
<b>E</b>	Housing(A)
<b>F</b>	Housing(B)
<b>G</b>	Sensor
<b>H</b>	End cover

<b>Dimension</b>	<b>Length</b>	4meter(customize)
	<b>Gauge Length</b>	1,000mm(customize)
	<b>Housing Dia.</b>	32mm
	<b>Pipe Dia.</b>	25mm
	<b>Weight</b>	4.5mm

## Installation

