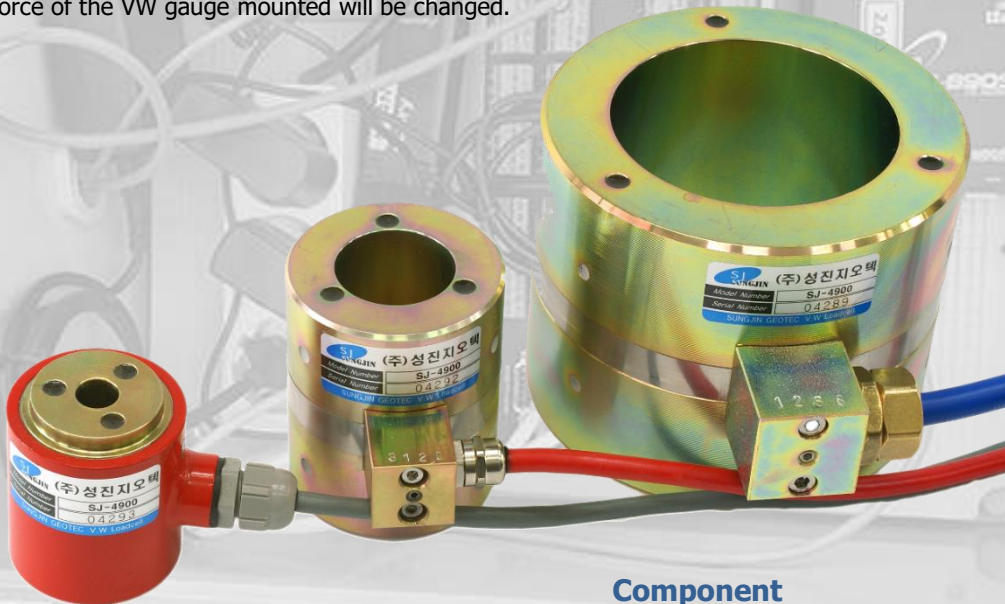


Description

VW Load Cell is to measure the reaction force available at Earth Anchor to analyze in connection with the change of the retaining wall and judgment of the stability of the support after construction of anchor. Also, it is to measure the axial force affecting the strut. For VW Load Cell, the VW stainless gauge was mounted by trisection (quadrisect) equally in the cylindrical cell hole precisely processed for the heat treated alloy materials. The principle is that when the cell is affected by the load the tensile force of the VW gauge mounted will be changed.



Feature

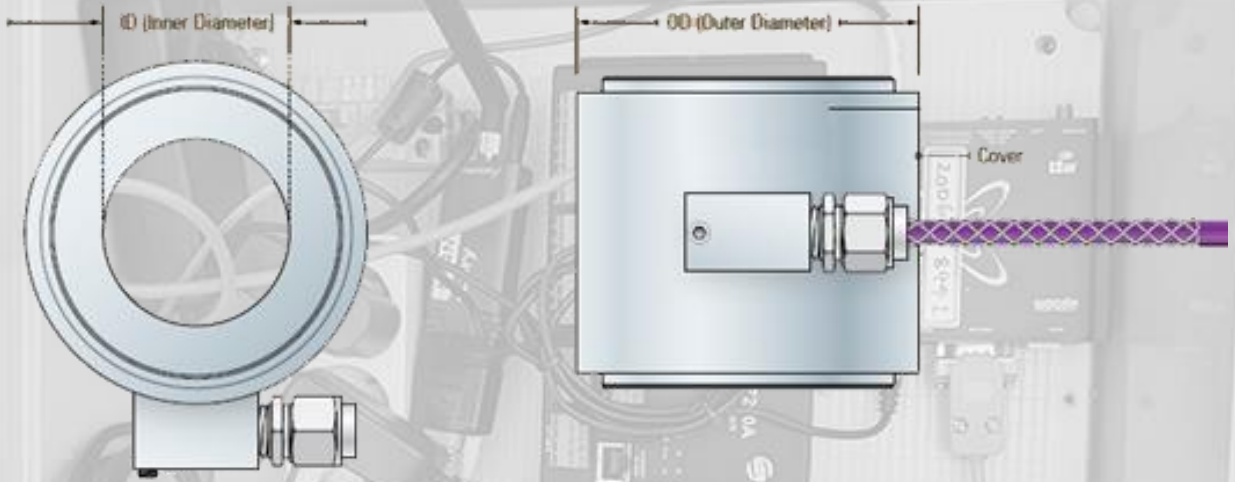
- * Excellent reproducibility and responsiveness which is free from cable length or resistance change
- * Perfect waterproof structure
- * High stability and high sensibility
- * High accuracy even for the eccentric load
- * High accurate resistance temp sensor mounted.
- * Two types separated considering the load pattern
- * High precious NTC thermistor

Component

- * Load cell main body
- * Top and bottom pressure plat / Strut plate (option)
- * Cable

Specification

Model	SJ-50	SJ-100	SJ-200	SJ-300
Capacity	50 tonf	100 tonf	200 tonf	300 tonf
Max. applied load	150 % FSR (Field Service Regulations)			
Resolution	0.025 % FSR			
Accuracy	±0.1 ~ ±0.5 % FSR			
Non-linearity	±0.5 % FSR			
Cell material	SCM family alloy steel			
No. of gauge mounted	3 VW Strain gauge (4 Strain gauge)			
Thermal expansion coefficient	10.8 x 10 ⁻⁶ /C			
Operation Temp.	-29 ~ 105 ° C			
Temp. sensor	NTC Thermistor (3KD-ATF)			
Storage Temp.	-40 ° C ~ 80 ° C			
Temp sensor accuracy	Thermistor : ±1°C			
Waterproof capacity	Fluoro family O-Ring, High density vacuum grease coating			
Airtight material	Stainless steel, High density epoxy potting			



Dimension

Item No.		SJ-50	SJ-100/120	SJ-150	SJ-200	SJ-300
Capacity (ton•f)		50	100/120	150	200	300
Cross section (mm ²)		2,356	6,518	8,432	9,632	7,193
Dimension	ID (mm)	35	75	100	125	85
	OD (mm)	65	118	144	167	128
	L (mm)	78	148	175	197	160
	H (mm)	80(112)	102(132)	102(132)	102(132)	102(132)
	W (kg)	1.4(2.1)	5.3(7.3)	6.7(9.9)	7.7(11.4)	5.7(8.1)

Reference

Linear Value (KHz²)

- Application: It can be used for VW load cell and VW pressure sensors. It is also mainly used when the frequency value is decreased according to the increase in the engineering unit which is the reference standard for calibration.

- Unit: 10³Hz²

- Unit Conversion

a) Hz is converted into 10³Hz² : 10³Hz² = Hz × Hz / 1000

b) 10³Hz² is converted into Hz : Hz = √(10³Hz² × 1000)

