

VW Earth Pressure Cell

- Model : 1910
- Serial No. : 566853
- Range : 10kg/cm² (142psi)
- Temp. Device : Thermistor (3kΩ @25℃)
- Cal. Date : 2018.04.19
- Cal. Temp : 20℃
- Readout : ACE-1000
- Cable Length : 196m

Pressure (kg/cm ²)	Reading		Error (% FSR)
	Hz	10 ³ Hz ²	
0.0	2982.9	8897.7	0.039
2.0	2878.9	8288.1	-0.033
4.0	2771.4	7680.7	-0.080
6.0	2659.1	7070.8	0.063
8.0	2543.5	6469.4	0.049
10.0	2423.7	5874.3	-0.039

■ $\text{Pressure(kg/cm}^2\text{)} = A \times \text{Hz}^2 + B \times \text{Hz} + C - \text{Tct} \times (\text{Tc} - \text{Ti})$

● ABC Factor : Measuring [Hz]

A Factor : -0.0000028406
 B Factor : -0.0025108052
 C Factor : 32.7680271845

■ $\text{Pressure(kg/cm}^2\text{)} = \text{Gage Factor} \times (\text{Current Reading} - \text{Zero Reading}) - \text{Tct} \times (\text{Tc} - \text{Ti})$

● Gage Factor : Measuring [10³Hz²]

Gage Factor : -0.00331
 Zero Reading : 8893.21

Tct : Thermal. Coefficient, Tc : Current Temperature, Ti : Initial Temperature

● Thermal Coefficient(kg/cm²/°C) : -0.002452

[Cable Connection]

Frequency - Red, Black

Temperature - Green, White

- The gage factor and zero reading of this calibration sheet are calculated using a linear regression analysis method.
- If any factor(overload, temperature, humidity etc.) that affects to the precision, accuracy of measuring instrument, it is useless.

Calibrated By : B. W. Nam /