

VW Earth Pressure Cell

- Model : 1910
- Serial No. : 566859
- Range : 10kg/cm² (142psi)
- Temp. Device : Thermistor (3kΩ @25℃)
- Cal. Date : 2018.04.19
- Cal. Temp : 20℃
- Readout : ACE-1000
- Cable Length : 297m

Pressure (kg/cm ²)	Reading		Error (% FSR)
	Hz	10 ³ Hz ²	
0.0	2947.7	8688.9	0.014
2.0	2837.5	8051.4	-0.046
4.0	2722.5	7412.0	0.063
6.0	2604.5	6783.4	-0.049
8.0	2480.6	6153.4	0.024
10.0	2351.9	5531.4	-0.006

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

● ABC Factor : Measuring [Hz]

A Factor	:	-0.0000027059
B Factor	:	-0.0024406503
C Factor	:	30.7070968187

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

● Gage Factor : Measuring [10³Hz²]

Gage Factor	:	-0.00317
Zero Reading	:	8682.73

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

● Thermal Coefficient(kg/cm²/°C) : -0.001284

[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 /