

VW Earth Pressure Cell

- Model : 1910
- Serial No. : 566852
- 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	2991.5	8949.1	0.021
2.0	2876.3	8273.1	-0.067
4.0	2754.8	7588.9	0.086
6.0	2629.6	6914.8	-0.058
8.0	2496.6	6233.0	0.024
10.0	2356.9	5555.0	-0.005

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

- ABC Factor : Measuring [Hz]

A Factor	:	-0.0000029470
B Factor	:	0.0000078055
C Factor	:	26.3514331144

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

- Gage Factor : Measuring [10³Hz²]

Gage Factor	:	-0.00295
Zero Reading	:	8949.80

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

- Thermal Coefficient(kg/cm²/°C) : -0.000200

[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 / 