

VW Earth Pressure Cell

- Model : 1910
- Serial No. : 566855
- Range : 10kg/cm² (142psi)
- Temp. Device : Thermistor (3kΩ @25℃)
- Cal. Date : 2018.04.19
- Cal. Temp : 20℃
- Readout : ACE-1000
- Cable Length : 275m

Pressure (kg/cm ²)	Reading		Error (% FSR)
	Hz	10 ³ Hz ²	
0.0	3010.5	9063.1	0.032
2.0	2903.3	8429.2	-0.075
4.0	2790.7	7788.0	0.054
6.0	2674.7	7154.0	-0.030
8.0	2552.6	6515.8	0.034
10.0	2425.2	5881.6	-0.016

■ $\text{Pressure(kg/cm}^2\text{)} = A \times \text{Hz}^2 + B \times \text{Hz} + C - T_{ct} \times (T_c - T_i)$

● ABC Factor : Measuring [Hz]

A Factor : -0.0000030952
 B Factor : -0.0002524140
 C Factor : 28.8152707306

■ $\text{Pressure(kg/cm}^2\text{)} = \text{Gage Factor} \times (\text{Current Reading} - \text{Zero Reading}) - T_{ct} \times (T_c - T_i)$

● Gage Factor : Measuring [10³Hz²]

Gage Factor : -0.00314
 Zero Reading : 9063.49

T_{ct} : Thermal. Coefficient, T_c : Current Temperature, T_i : Initial Temperature

● Thermal Coefficient(kg/cm²/°C) : -0.001545

[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 /