



innovation in
geotechnical
instrumentation

Calibration Record

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Vibrating Wire Pressure Transducer

Customer : PT Unggul Ejawantah Industri
Model : VW-2100A-1.0
Serial Number : VW37175
Mfg Number : 337090
Range : 1000.0 kPa
Temperature : 20.0 deg C
Barometric Pressure : 1012.0 millibars
Cable Length : 145 meters
Cable Colour Code : red/black (coil) Green/white (thermistor)
Cable Insulation / Jacket : PEPolyethylene / PVC 6EL380004
Thermistor Type : 3 kΩ

Applied Pressure (kPa)	Readings Up (B units)	Readings Down (B units)	Average Readings (B units)	Calculated Linear (kPa)	Linearity F.S. Error (%)	Polynomial Fit (% FS)
0.0	9749	9749	9749	1.2	0.12	0.01
208.0	8949	8949	8949	207.6	-0.04	-0.02
418.0	8145	8145	8145	415.0	-0.10	-0.01
624.0	7337	7337	7337	623.3	-0.07	0.02
832.0	6828	6828	6828	831.9	-0.01	0.01
1040.0	5718	5718	5718	1040.9	0.09	-0.01
Max. Error (%)					0.12	0.02

Linear Calibration Factor :

Regression Zero :

Temperature Correction Factor :

C.F.= 0.25789 kPa / B unit
At Calibration Bi = 9753.9 B unit
Tk = -0.11280 kPa / deg C rise

Polynomial gage Factors A : -4.9412E-07 B : -0.25025 C : 2486.8

Pressure is calculated with the following equations :

Linear, $P \text{ (kPa)} = C.F. \times (Li - Lc) - [Tk(Ti - Tc)] + [0.014504 (Bi - Bc)]$

Polynomial, $P \text{ (kPa)} = A(Lc)^2 + BLc + C + Tk(Tc - Ti) - [0.014504 (Bc - Bi)]$

	DATE (dd/mm/yy)	VW2104 Pos.B (Li)	TEMP degC (Ti)	BARO (Bi)
SHIPPED ZERO READINGS :	13-Dec-18	9745	22.3	1016.4

Li, Lc = initial (at installation) and current readings

Ti, Tc = initial (at installation) and current temperature deg C

Bi, Bc = initial (at installation) and current barometric pressure readings, in millibars

B units = B scale output of VW 2102, VW 2104 readouts

B units = Hz2/1000 ie. 1700Hz = 2890 B units

Certified By : I. Kurchavov *IK*

Date : 13-Dec-18

This instrument has been calibrated using standard traceable to the NIST in compliance with ANSI Z540-1

