



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 : VW37172
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	9570	9570	9570	2.3	0.22	0.01
208.0	8755	8755	8755	207.5	-0.05	-0.01
418.0	7935	7935	7935	414.1	-0.18	-0.01
624.0	7108	7108	7108	622.3	-0.16	0.00
832.0	6276	6276	6276	831.8	-0.02	0.03
1040.0	5442	5442	5442	1042.0	0.19	-0.02
Max. Error (%)					0.22	0.03

Linear Calibration Factor :
Regression Zero :
Temperature Correction Factor :

C.F. = 0.25187 kPa / B unit
At Calibration Bi = 9578.8 B unit
Tk = -0.25547 kPa / deg C rise

Polynomial gage Factors A : -9.4120E-07 B : -0.23774 C : 2361.5

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	9565	22.4	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

