



innovation in
geotechnical
instrumentation

Calibration Record

RST Instruments Ltd., 11545 Kingston St., Maple Ridge, British Columbia, Canada V2X 0Z5
Tel: 604 540 1100 • Fax: 604 540 1005 • Toll Free: 1 800 665 5599 (North America only)
e-mail: info@rstinstruments.com • Website: www.rstinstruments.com

Vibrating Wire Pressure Transducer

Customer : PT Unggul Ejawantah Industri
Model : VW-2100A-1.0
Serial Number : VW37173
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	9567			2.3	0.22	0.01
208.0	8781			207.4	-0.06	-0.02
418.0	7988			414.2	-0.17	0.00
624.0	7190			622.3	-0.16	0.01
832.0	6388			831.6	-0.04	0.01
1040.0	5581			1040.1	0.20	-0.01
Max. Error (%)					0.22	0.02

Linear Calibration Factor :

Regression Zero :

Temperature Correction Factor :

C.F. = 0.26087 kPa / B unit

At Calibration Bi = 9575.9 B unit

Tk = -0.22070 kPa / deg C rise

Polynomial gage Factors

A : -1.0229E-06

B : -0.24537

C : 2441.3

Pressure is calculated with the following equations :

Linear, P (kPa) = C.F. x (Li - Lc) - [Tk(Ti - Tc)] + [0.014504 (Bi - Bc)]

Polynomial, P (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)
13-Dec-18	9570	22.3	1016.4

SHIPPED ZERO READINGS :

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 = Hz/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

