

# PENDO TECH

"Adding Value To Your Process"

## Procedure for Measuring Accuracy of PendoTECH PressureMAT:

Set monitor to 2 decimal place:

Press the Back button 3 times to access the Global Setting menu

Toggle cursor to Control Service and press Select

With cursor next to Decimal, press Select and the up arrow to show ON, then press Select to save change

Press Home to return to the main screen

Attach **PMAT TCA** with white and red leads to channel of PMAT to be measured:

black is negative

red is positive

Attach calibrated millivolt generator to the leads

**With the millivolt generator on but no voltage being applied (generating 0.000mV)**, press the TARE button on the PMAT to zero the channel

Create the Applied Voltage (millivolts) using the generator, as shown in the table below, and record Found Pressure

Compare Found Pressure to Target + Allowed Deviation

<u>Target Pressure</u>	<u>Applied Voltage</u>	<u>Found Pressure</u>	<u>Allowed Deviation from Target Pressure +/- (1% of Target Pressure + 0.03 psi [zero offset stability])</u>
1 psi	1.034 mV	psi	0.04 psi
5 psi	5.179 mV	psi	0.08 psi
10 psi	10.439 mV	psi	0.13 psi
30 psi	31.136 mV	psi	0.33 psi
50 psi	50.137 mV	psi	0.53 psi
60 psi	58.959 mV	psi	0.63 psi

<u>Target Pressure</u>	<u>Applied Voltage</u>	<u>Found Pressure</u>	<u>Allowed Deviation from Target Pressure +/- (1% of Target Pressure + 0.0021 bar [zero offset stability])</u>
0.34 bar	5.179 mV	bar	0.01 bar
0.69 bar	10.439 mV	bar	0.01 bar
2.07 bar	31.136 mV	bar	0.02 bar
3.45 bar	50.137 mV	bar	0.04 bar
4.14 bar	58.959 mV	bar	0.04 bar