



National Association for Proficiency Testing

A Non-Profit Organization Dedicated to Excellence in Metrology and Test Measurement

PRELIMINARY REPORT: NAPT-PRESSURE-103

This Preliminary Report documents the results for the ILC/PT listed below, covering all data presented to NAPT for evaluation by your organization. For tests with an established history, a Final Report will be issued after the 30 day review period expires. The Final Report will include a graphical representation of participants' values compared to the artifact mean and the values reported by the other participants.

Preliminary Results Reported To: **Digital Measurement Metrology Inc**
Attention: Dean DiMarco
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Brampton, ON L6S 5N7

Date Of Preliminary Report: January 12, 2005
Date Of Participation in ILC/PT: December 09, 2004

ILC/PT NAME: NAPT-PRESSURE-103
100 PSI Pressure Transducer
Discipline: Pressure
Artifact Type: Pressure
Manufacturer: Mensor
Model Number: DPGII 15000
Serial Number: 241413

Data analysis of your reported values indicates that your organization performed **10 out of 10 measurements satisfactorily**. Please note that reference data is subject to change between issuance of Preliminary and Final Reports. If any data reported in this Preliminary Report is incorrect or if you would like to submit any revisions/corrections of your reported data, please contact us within 30 days.

All NAPT programs are conducted in accordance with ISO/IEC Guide 43-1 and ILAC G13:2000 requirements for proficiency testing providers. Please contact NAPT with any questions regarding this Preliminary Report.

Preliminary analysis of the data your organization submitted to NAPT is shown below. Reported values are compared against the reference value only. In the Final Report, your reported values will also be analyzed against the values reported by other participants enrolled in this ILC/PT.

| Measurement Description | Reported Value Reference Value | Reported Uncertainty Reference Uncertainty | En | S/U |
|-----------------------------|-----------------------------------|---|------|-----|
| Pressure | | | | |
| 10 psig - 1) 10.000 psig | 9.999 psig 10.002 | 0.003 0.021 | 0.11 | S |
| 20 psig - 2) 20.000 psig | 19.999 psig 20.001 | 0.004 0.022 | 0.1 | S |
| 30 psig - 3) 30.000 psig | 29.997 psig 30.000 | 0.007 0.023 | 0.12 | S |
| 40 psig - 4) 40.000 psig | 39.996 psig 39.999 | 0.008 0.024 | 0.12 | S |
| 50 psig - 5) 50.000 psig | 49.996 psig 50.000 | 0.01 0.026 | 0.17 | S |
| 60 psig - 6) 60.000 psig | 59.994 psig 59.999 | 0.011 0.028 | 0.15 | S |
| 70 psig - 7) 70.000 psig | 69.994 psig 70.000 | 0.013 0.033 | 0.17 | S |
| 80 psig - 8) 80.000 psig | 79.993 psig 79.999 | 0.015 0.038 | 0.14 | S |
| 90 psig - 9) 90.000 psig | 89.992 psig 89.998 | 0.016 0.04 | 0.12 | S |
| 100 psig - 10) 100.000 psig | 99.992 psig 99.997 | 0.018 0.043 | 0.12 | S |

NOTES:

1. Values may be rounded. Rounding does not affect data analysis and is for reporting purposes only
2. All uncertainties are at (or normalized to) K=2 (coverage factor associated with a 2-sigma, 95%, normal distribution)
3. En = (participant's reported value - reference value) / SQRT (participant's reported uncertainty^2 + reference uncertainty^2)
4. S/U: S (Satisfactory) = participant's computed En is within range of ±1; U (Unsatisfactory) = participant's computed En is outside range of ±1