



CALIBRATION CERTIFICATE

UNIT UNDER TEST (UUT)

Manufacturer : GE Druck
Part Number : RPS81H0-TB-A2-CC-H0-PA
Serial Number : 3486352
Pressure Range : 750 to 1150 hPa a
Calibrated Range : 35 to 1150 hPa a
Temperature Range : -40°C to +85°C
Calibration Date : 11 May 2012
Pressure Connector : G1/4 Female

PERFORMANCE DATA

Max. Error in data : 0.03 hPa
Spec ±0.20 hPa
Freq. @ 1000 mbar 25°C : 30540.631 Hz
Frequency Range : 27724 to 30987 Hz
Ave. Pressure Sensitivity : 2.926 Hz/mbar
Spec 2.000 to 5.000 Hz/mbar
Diode Voltage Range : 415 to 673 mV
Nom. Diode Sensitivity : -2.06 mV/°C
Spec -2.60 to -1.60 mV/°C

ELECTRICAL CONNECTOR

Electrical Connector : Orange PTFE Cable
Red : +ve Supply
Yellow : Frequency
Green : +ve Temp
Blue : Ground
Black : EEPROM
White : -ve Temp

POLYNOMIAL

$$\text{Pressure} = \sum_i \sum_j K_{ij} \cdot x^i \cdot y^j$$

for i = 0 to 4, j = 0 to 3

Pressure = hPa

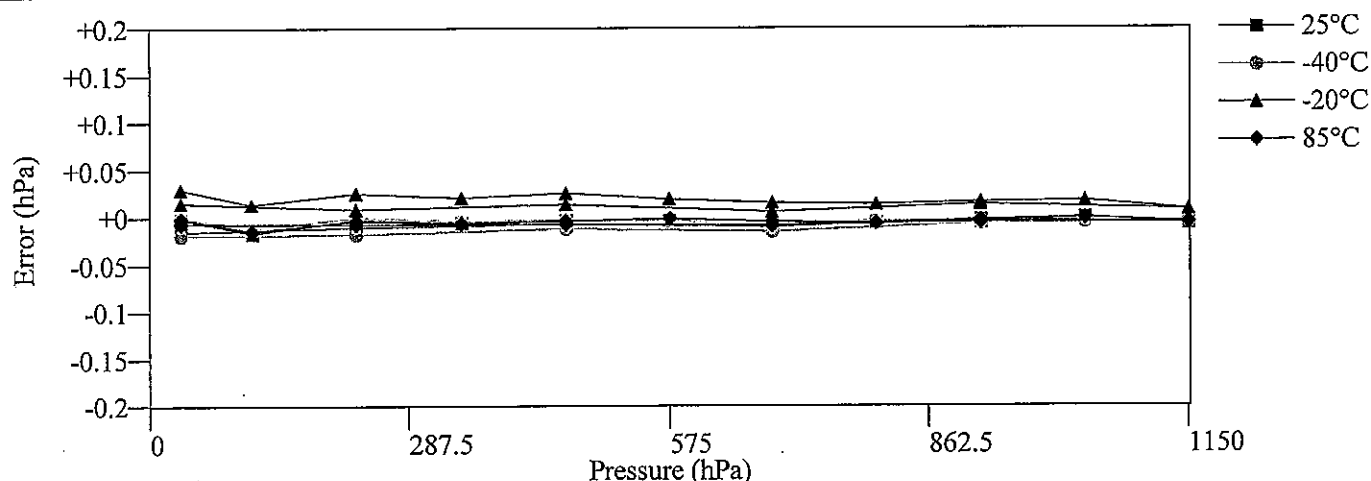
x = Frequency Output (Hz) - X'

y = Temperature Signal (mV) - Y'

COEFFICIENTS

| | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| K00: 5.362135e+002 | K10: 3.501286e-001 | K20: 6.838161e-006 | K30: 7.124182e-011 | K40: -9.919290e-015 |
| K01: -1.294328e-001 | K11: 3.301355e-006 | K21: -3.640218e-011 | K31: -1.086484e-014 | K41: 1.593038e-017 |
| K02: 8.086413e-005 | K12: -8.336677e-009 | K22: -1.120038e-013 | K32: 1.562839e-017 | K42: 1.523636e-020 |
| K03: 2.141600e-007 | K13: -3.723404e-011 | K23: 1.149825e-015 | K33: 1.468861e-018 | K43: -8.910464e-022 |
| X': 2.925437e+004 | Y': 5.512126e+002 | | | |

RESIDUAL ERRORS AGAINST PRESSURE



Certified by:



Date: 6/06/2012

NOTES

(*1) Graphs shown are of extreme temperatures and maximum +ve and -ve deviations

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