



CALIBRATION CERTIFICATE

UNIT UNDER TEST (UUT)

Manufacturer : GE Druck
 Part Number : RPS8100-08B-112M5495
 Serial Number : 10797448
 Pressure Range : 35 to 3500 hPa a
 Calibrated Range : 35 to 3500 hPa a
 Temperature Range : -55°C to +85°C
 Calibration Date : 10 October 2017
 Pressure Connector : G1/8 Male 60° Internal Cone

PERFORMANCE DATA

Max. Error in data : -0.08 hPa
 : Spec ±0.35 hPa
 Freq. @ 1000 mbar 25°C : 27760.245 Hz
 Frequency Range : 25632 to 32492 Hz
 Ave. Pressure Sensitivity : 1.980 Hz/mbar
 : Spec 1.143 to 2.857 Hz/mbar
 Diode Voltage Range : 418 to 707 mV
 Nom. Diode Sensitivity : -2.07 mV/°C
 : Spec -2.60 to -1.60 mV/°C

ELECTRICAL CONNECTOR

Electrical Connector : Flying Leads
 Red : +ve Supply
 Yellow : Frequency
 White : -ve Temp Signal
 Green : +ve Temp Signal
 Blue : -ve Supply
 Black : EEPROM

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

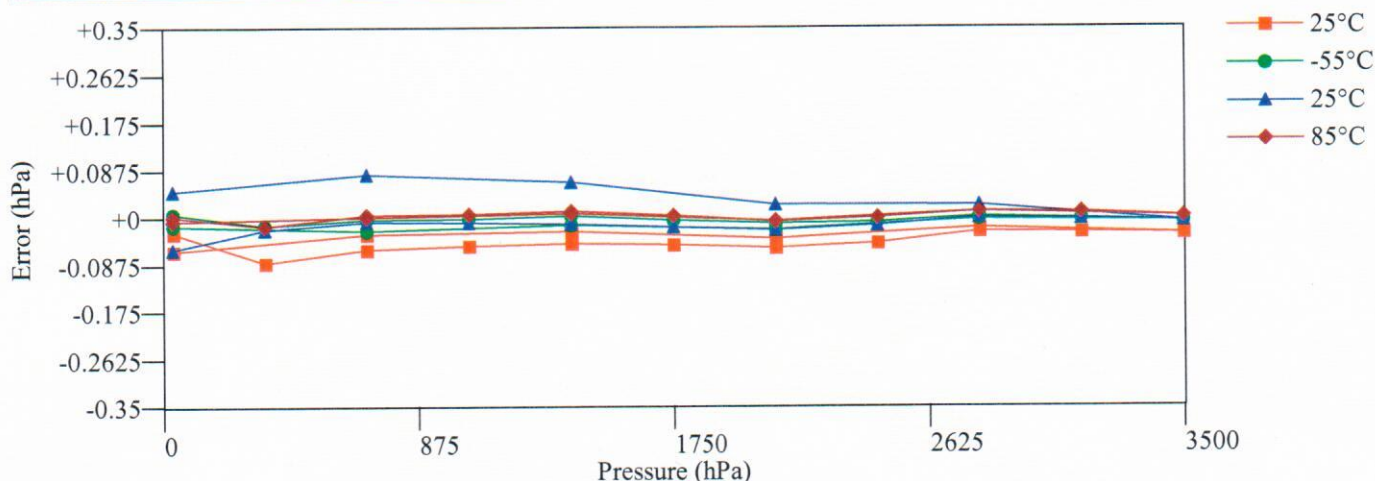
x = Frequency Output (Hz) - X'

y = Temperature Signal (mV) - Y'

COEFFICIENTS

K00: 1.598332e+003	K10: 5.089537e-001	K20: 1.018826e-005	K30: 8.192382e-011	K40: 1.554858e-015
K01: -1.551760e-001	K11: 4.392519e-006	K21: 3.779324e-011	K31: 3.890464e-015	K41: -2.080178e-018
K02: 1.060367e-004	K12: -1.048677e-008	K22: -2.616210e-013	K32: -4.861845e-017	K42: 1.638909e-020
K03: 2.120299e-007	K13: -2.986125e-011	K23: -9.702796e-016	K33: -4.793117e-019	K43: 1.340565e-022
X': 2.897598e+004	Y': 5.684495e+002			

RESIDUAL ERRORS AGAINST PRESSURE



Certified by:



Date:

16 OCT 2017

NOTES

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