



# CALIBRATION CERTIFICATE

## UNIT UNDER TEST (UUT)

Manufacturer : GE Druck  
Part Number : RPS8100-08B-112M5495  
Serial Number : 10797446  
Pressure Range : 35 to 3500 hPa  
Calibrated Range : 35 to 3500 hPa  
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 : -0.04 hPa  
Spec ±0.35 hPa  
Freq. @ 1000 mbar 25°C : 27580.576 Hz  
Frequency Range : 25560 to 32095 Hz  
Ave. Pressure Sensitivity : 1.886 Hz/mbar  
Spec 1.143 to 2.857 Hz/mbar  
Diode Voltage Range : 417 to 708 mV  
Nom. Diode Sensitivity : -2.08 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

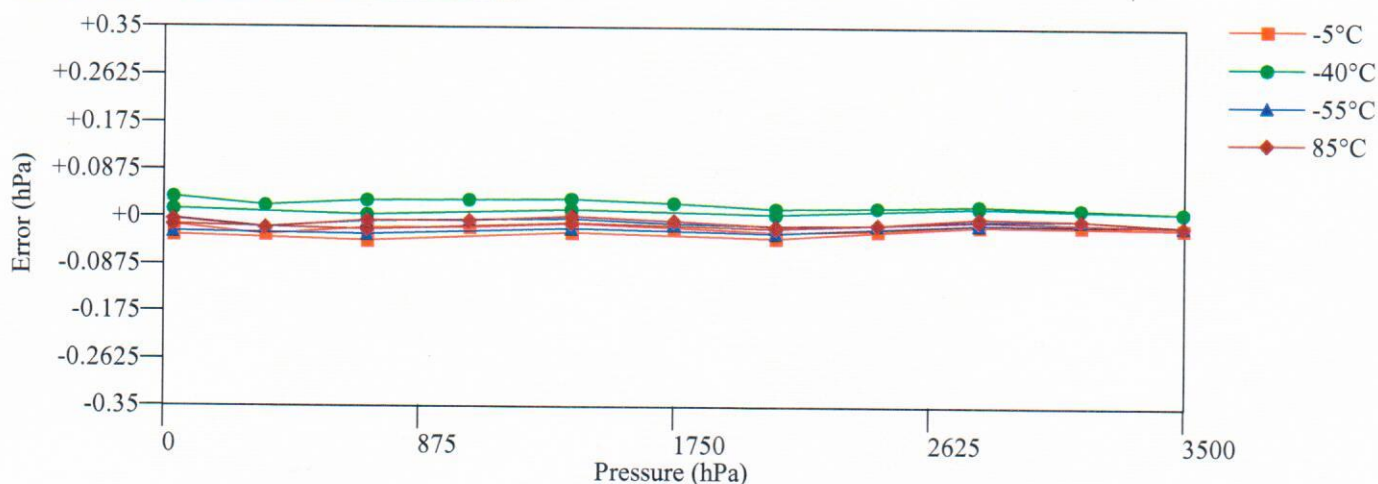
$x$  = Frequency Output (Hz) -  $X'$

$y$  = Temperature Signal (mV) -  $Y'$

## COEFFICIENTS

K00: 1.600192e+003	K10: 5.347145e-001	K20: 1.077544e-005	K30: 8.642719e-011	K40: 1.916778e-015
K01: -1.648948e-001	K11: 4.440095e-006	K21: 2.228831e-011	K31: -5.498626e-015	K41: 1.228974e-018
K02: 1.109282e-004	K12: -1.075836e-008	K22: -1.834859e-013	K32: 1.901776e-018	K42: -2.479581e-021
K03: 2.682570e-007	K13: -3.154605e-011	K23: 1.988222e-016	K33: 8.122089e-020	K43: -8.714338e-023
$X'$ : 2.874064e+004	$Y'$ : 5.681755e+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.