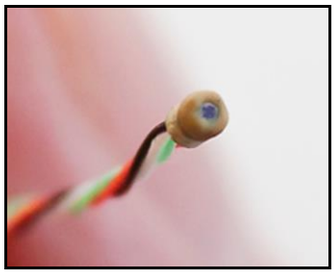
SENSORADE

Miniaturized aerodynamic flow measurement

Ultra small pressure sensor for harsh environment High Temperature

1,2 mm up to 185C° MP-1.20-WOT-YYY-A-ZZ-XX



MODEL DEFINITION

WOT: without tube is the standard product
YYY: pressure range in PSI (030, 060, 100)
A: absolute pressure measurement
ZZ: **ST:** standard temperature up to 100C°
HT: high temperature up to 185C°
XX: **00:** Unshielded wires
01: Shielded wire

WIRE COLOR CODE

BLACK	Input -
RED	Input +
WHITE	Output -
GREEN	Output +

OVERVIEW

- Outer diameter 1.2 mm
- From 30 to 100 psi Absolute pressure sensor
- Wide temperature range up to 185C°
- Harsh environment
- Customized solution possible
- mVolt output
- Highest resonance frequency on the market
- Amplification can be done for a special request
- Unshielded wires : UAA-3601-WH/…-BK/…-RD/…-GR
  Or
  Shielded wire: TAU-3607.04
- Wire length: 1m

APPLICATIONS

- Instrumentation (ie: Automotive, …)
- Aerodynamic testing (ie: wind tunnel)
- Industrial process monitoring
- Pumps
- Biomedical
- Oil and gas
- …

Resonance frequency

- Highest resonance frequency of 2.7 MHz of the market
- The tests have been done on a Polytec MSA-500 using Scanning laser-Doppler vibrometry.

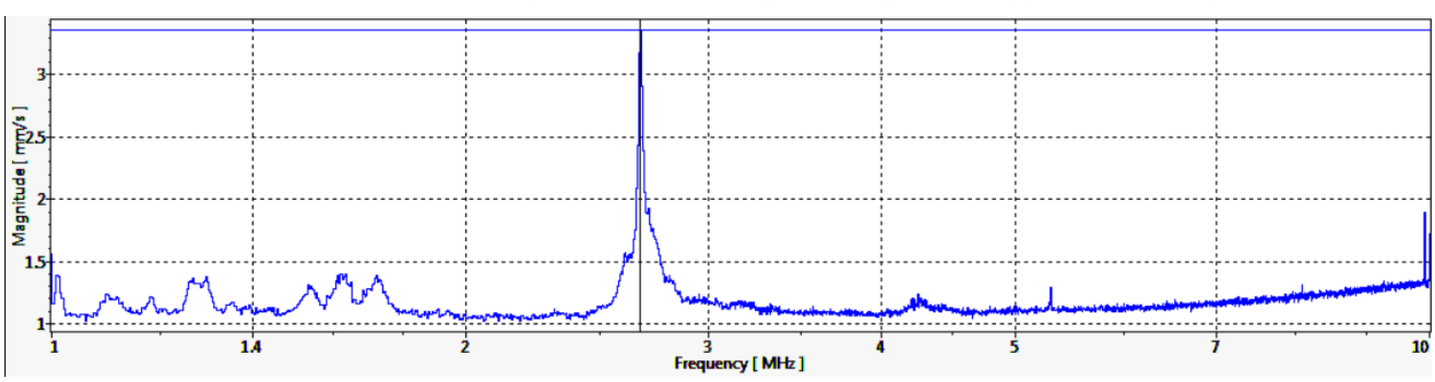


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

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SENSORADE

Miniaturized aerodynamic flow measurement

PART NUMBER | MP-1.20-WOT-YYY-A-ZZ-XX

Outer diameter	1.20mm		
Pressure range[1]	0-2 bar	0-4 bar	0-7 bar
	0-30 psi	0-60 psi	0-100 psi
Max nominal pressure	2 bar	4 bar	7 bar
	30 psi	60 psi	100 psi
Proof pressure[1]	3 * nominal		
Burst pressure[1]	5 * nominal		
Bridge resistance	6.2 kΩ typical / (5-7 kΩ)		
Vout span[4]	100 mV typical / (65-135mV)		
Excitation voltage	5V		
Tmax[2]	100 Celsius (ST) - 185 Celsius (HT)		
Accuracy[3]	0.5% @ FS		
Signal amplification	None		

Remark :

- All sensors are provided with a control sheet given pressure level versus mVolt @ 25 C° under a supply voltage of 5 Volt.
- Temperature measurement/compensation available. See our tutorial on our website.

1 | Absolute pressure

2 | TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax

3 | @25 Celsius – Please contact us for more information

4 | Amplification can be done for a special request

CONTACT

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