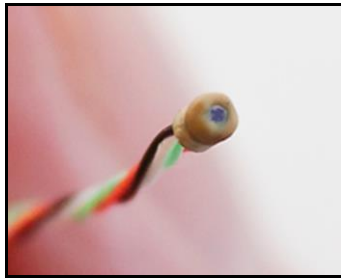


Ultra small pressure sensor for harsh environment High Temperature

1,2 mm up to 185C°

MP-1.20-WOT-YYY-A-ZZ



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°

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

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.

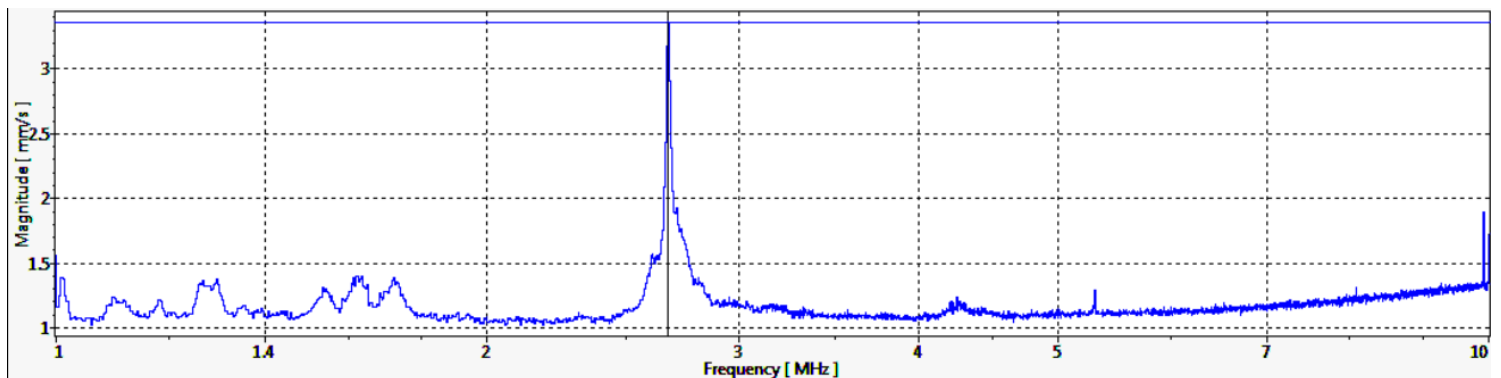


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

PART NUMBER

MP-1.20-WOT-YYY-A-ZZ

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

Operational Headquarter: Rue des Ormes 151, B-4800 Lambermont, BELGIUM

TEL: +32 87 70 96 69

Email: sales@sensorade.be