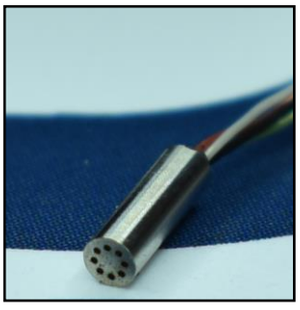
SENSORADE

Miniaturized aerodynamic flow measurement

Very small pressure sensor for harsh environment High Temperature

1,55 mm up to 185C° MP-1.55-XXX-YYY-A-ZZ-XX



MODEL DEFINITION

XXX: **TIG:** Inconel tube with grid is the standard product
TSG: Stainless steel tube with grid
TIO: Inconel tube (open configuration)
TSO: Stainless steel (open configuration)
YYY: pressure range in PSI (018, 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 1.55 mm
- From 18 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.

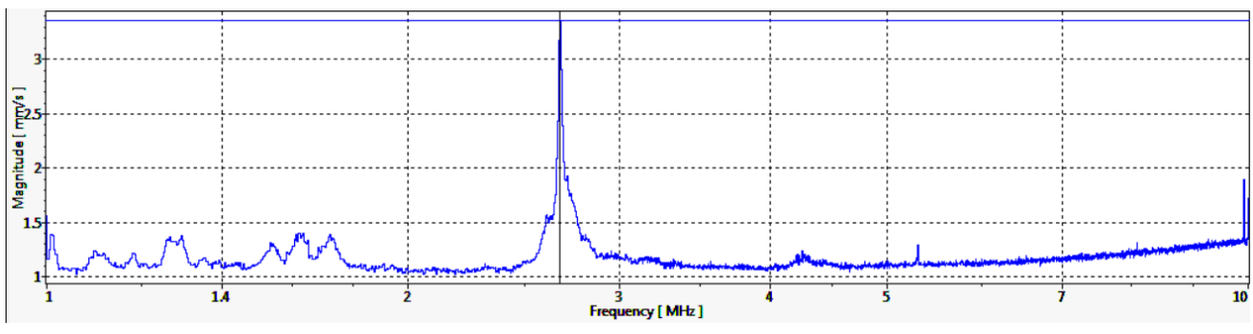


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors

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SENSORADE

Miniaturized aerodynamic flow measurement

PART NUMBER MP-1.55-XXX-YYY-A-ZZ-XX

Outer diameter	1.55mm			
Pressure range[1]	0-1.2 bar	0-2 bar	0-4 bar	0-7 bar
	0-18 psi	0-30 psi	0-60 psi	0-100 psi
Max nominal pressure	1.2 bar	2 bar	4 bar	7 bar
	18 psi	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 @ 25C° 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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