





MP-1.55 ULTRA MINIATURE FLAT PRESSURE SENSOR

1,55 mm up to 100C°

Very small pressure sensor for harsh environment Standard Temperature - Flat

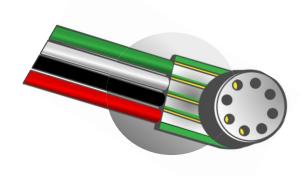
FEATURES

- L x W: 1.55mm x 3 mm
- From 2 to 7 bar Absolute pressure sensor
- Burst pressure 7 bar
- Wide temperature range up to 100C°
- 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

SENSORADE



MODEL DEFINITION

TIG: Inconel tube with grid is the standard product YYY: pressure range in bar (002, 004, 007)

A: absolute pressure measurement

ST: standard temperature up to 100C°

FLAT: flat shape

Options: special tube length, material and grid shape also available on request

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

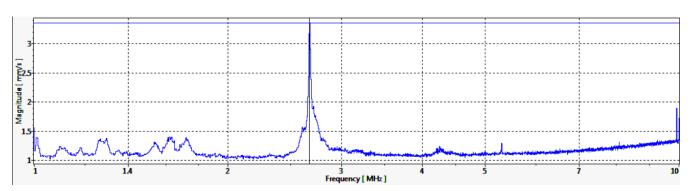


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors





SPECIFICATIONS

PART NUMBER	MP-1.55-TIG-YYY-A-ST-FLAT	
LxW	1.55 mm x 3 mm	
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 span⁴	100 mV typical / (65-135mV)	
Excitation voltage	5V	
Tmax ²	100 Celsius	
Accuracy ³	0.25% @ 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.
- 1. Absolute pressure
- 2. TMCL qualification tests JEDEC JESD22-A104 « temperature cycling » @ Tmax
- 3. Accuracy @25 Celsius
- 4. Amplification can be done for a special request

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MP-1.55 ULTRA MINIATURE FLAT PRESSURE SENSOR

1,55 mm up to 185C°

Very small pressure sensor for harsh environment High Temperature - Flat

FEATURES

- L x W: 1.55mm x 3 mm
- From 2 to 7 bar Absolute pressure sensor
- Burst pressure 7 bar
- 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



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

MODEL DEFINITION

TIG: Inconel tube with grid is the standard product

YYY: pressure range in bar (002, 004, 007)

A: absolute pressure measurement

HT: high temperature up to 185C°

Options: special tube length, material and grid

shape also available on request

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

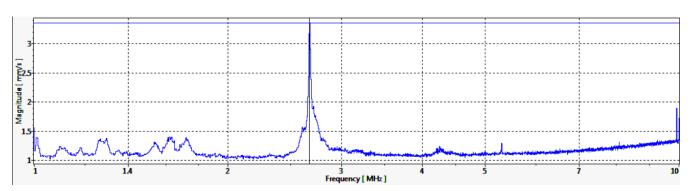


Figure 1: Result for the 30 PSI MEMS absolute pressure sensors





SPECIFICATIONS

PART NUMBER	MP-1.55-TIG-YYY-A-HT-FLAT	
LxW	1.55 mm x 3 mm	
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	185 Celsius	
Accuracy ³	0.25% @ 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.
- 1. Absolute pressure
- 2. TMCL qualification tests JEDEC JESD22-A104 « temperature cycling » @ Tmax
- 3. Accuracy @25 Celsius
- 4. Amplification can be done for a special request

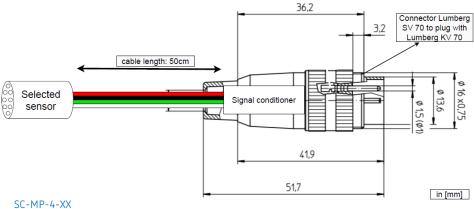
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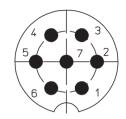












Pin configuration		
Function		
hield		
Vout+		
GND		
GND		
Vin+		
NC		
NC		
NC		

SC: Signal conditioners

MP: Miniaturized pressure

24: Maximum input voltage in volt

XX: Maximum output voltage in volt (05, 10)

OVERVIEW

- Can be used with our sensor
- Power supply up to 24V
- Output signal up to

SPECIFICATIONS

Characteristics	Electrical characteristics	
PART Number	SC_MP_24_05	SC_MP_24_10
Supply Voltage	8-24 VDC	12-24 VDC
Output Voltage	0-5 VDC	0-10 VDC
Bandwidth	0-200 kHz	0-200 kHz
Operating temperature	85 °C	85 °C
Maximum current	5mA	5mA
Output impedance (1KHz)	200Ω	200Ω

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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.