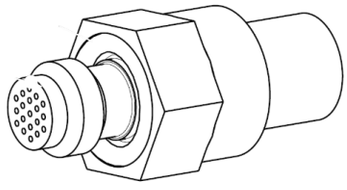
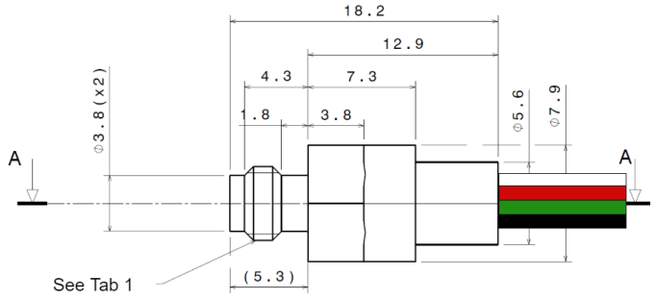
SENSORADE

Miniaturized aerodynamic flow measurement

Miniaturized pressure sensor

3.80 mm up to 185C° MMP-004-3.80-XXX-S-YYYY-A-ZZ





Tab 1	
Type	Value
Metric	M5x0.5
Imperial	10-32 UNF-2A

MODEL DEFINITION

XXX: **SST:** mechanical casing in stainless steel
S: M for metric, I for Imperial
YYYY: pressure range in PSI (0100, 0300)
A: absolute pressure measurement
ZZ: **ST:** standard temperature up to 100C°
HT: high temperature up to 185C°
Options: special tube length, material and grid shape also available on request

WIRE COLOR CODE

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

OVERVIEW

- Outer diameter 3.80 mm
- From 100 to 300 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
- Shielded wire: TAU-3219.04
- Wire length: 1m

APPLICATIONS

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

Instrumentation Devices Srl
Via Acquanera 29 - 22100 COMO (Italy)
ph +39 031 525 391- fax +39 031 507 984
info@instrumentation.it - www.instrumentation.it

SENSORADE

Miniaturized aerodynamic flow measurement

PART NUMBER

MMP-004-3.80-XXX-S-YYYY-A-ZZ

Pressure Range	Burst Pressure
0 → 100 PSI	300 PSI
0 → 300 PSI	900 PSI

Characteristic		Minimum	Typical	Maximum	Unit
Span[4]@ 5V	0 → 100 PSI	75	100	125	mV
	0 → 300 PSI	75	100	125	
Zero Offset[1]		-10	0	10	mV/V
Bridge Resistance (RB)		4	5	6	kΩ
Non-linearity[1]		-0.2	0	0.2	% FS
Pressure hysteresis[1]		-0.1	0	0.1	% FS
Operating Temperature[2]		-	-	+185	°C
Max Excitation Voltage		-	5	10	V
TC Sensitivity[3]		-1400	-1900	-2400	PPM/°C
TC Zero Offset[3]		-30	0	30	µV/V/°C
TC Resistance[3]		2000	2500	3000	PPM/°C
Thermal hysteresis[1]		-0.2	0	0.2	% FS

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.
- Conditioning system on request.
- High robustness: specific protection on wire bonding @MEMS level (protection against particles, dust, condensation...) without impact on frequency measuring range.

1| Accuracy @25 Celsius ; 2| TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax ; 3 | @MEMS level; 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

Instrumentation Devices

Instrumentation Devices Srl
Via Acquanera 29 - 22100 COMO (Italy)
ph +39 031 525 391- fax +39 031 507 984
info@instrumentation.it - www.instrumentation.it