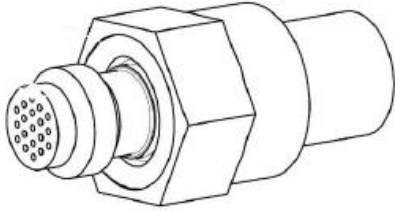


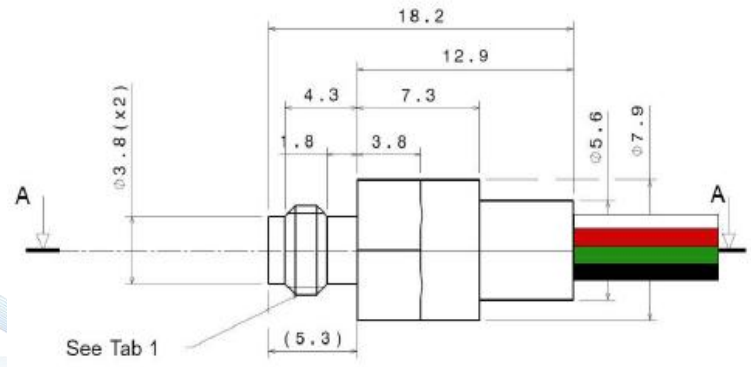
MMP-004-3.80-XXX-S-YYYY-A-ZZ from CALDROP INSTRUMENTS



The MMP-004-3.80 miniature pressure transducer utilizes a metal diaphragm as a force collector with a Piezoresistive Sensor as its sensing element. With the threaded body, hexagonal head and o-ring seal, the MMP-004-3.80 is easy to mount and simple to apply. The small size and flush diaphragm permit direct installation of the transducer in the wall of pressure containers, tubes, pipes, etc., eliminating the need for costly, space consuming hardware. With Excellent Stability, High Natural Frequency

Features:

- Outer diameter 3.80 mm
- From 0.35 to 20 Bar 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

Model definition:

- XXX: SST: mechanical casing in stainless steel
- S: M for metric, I for Imperial
- YYYY: pressure range in PSI (0005,0030,0100, 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

Specifications

Characteristic		Minimum	Typical	Maximum	Unit
Span ⁴ @ 5V	0 → 5 PSI	75	100	125	mV
	0 → 30 PSI	75	100	125	
	0 → 100 PSI	75	100	125	
	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 @ 25 C° under a supply voltage of 5 Volt.
- Temperature measurement/compensation available
- Conditioning system on request.
- High robustness: specific protection on wire bonding @MEMS level (protection against particles, dust, condensation...) without impact on frequency measuring range.

Advantages:

- Accuracy @25 Celsius
- TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax
- @MEMS level
- Amplification can be done for a special request

本文件中包含的数据仅供技术培训人员使用。

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