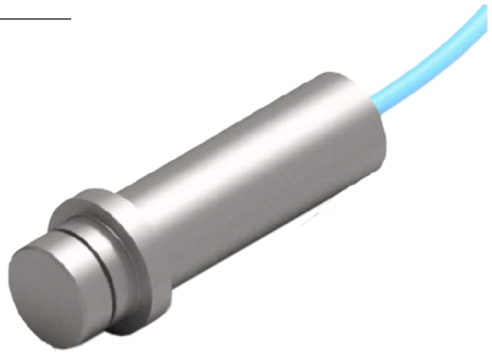
bar

MPT 402

FLUSH MOUNT PRESSURE and TEMPERATURE TRANSMITTER



FEATURES

- Flush mountable, low cost pressure and temperature transducer
- Automatic compensation for line resistance and power supply changes
- Made of corrosive resistant titanium (6AL4V) – excellent performance with corrosive media
- Absolute or sealed reference options
- Long term stability versions
- High vibrations options
- Coating options for liquids and bio-fluids (PTFE or nanostructured surface)
- Compatible with Micron's pressure fittings and calibration adaptors

MECHANICAL

Standard pressure ranges	2	3.5	7	15	20	35	70	140	200	350	500	bar
	25	50	100	200	300	500	1000	2000	3000	5000	7000	psi
Non -standard pressure ranges								0.7	1	2	10	bar
								10	15	30	150	psi

Other possible ranges	Consult Factory
Over Pressure (No change out of spec.)	2 x Range
Usable Pressure (Small change in balance)	3 x Range
Burst Pressure	6 x Range

PERFORMANCE (PRESSURE)

Performance Option	**A (STD)**	**B**	**C**	**D**	
Balance (Zero)	4.00 ± 0.5	4.00 ± 0.5	4.00 ± 0.5	4.00 ± 0.5	mA
Full Scale Sensitivity	16 ± 0.5	16 ± 0.5	16 ± 0.5	16 ± 0.5	mA
Static Error Band	± 0.5	± 0.25	± 0.25	± 0.25	% FS (BFSL)
Thermal Balance (Zero) Shift	± 0.036	± 0.036	± 0.018	± 0.009	% FS/°C
Thermal Sensitivity Shift	± 0.036	± 0.036	± 0.018	± 0.009	% FS/°C
Long Term Stability (std)	< ± 2	< ± 2	< ± 2	< ± 2	% FS/yr
Long Term Stability Options	**L10** < ± 1	**L5** < ± 0.5	**L2** < ± 0.2	**L1** < ± 0.1	% FS/yr

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PERFORMANCE (TEMPERATURE)

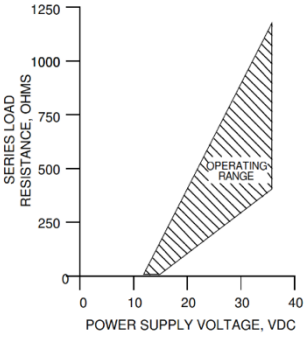
Balance @ 0°C	± 2.00	mA
Sensitivity (5.0 V DC excitation)	8.6 ± 0.9	mA/°C
Temperature Accuracy	± 0.27	°C
Input Resistance	6.5 ± 0.8	kΩ
Output Resistance	5.0 ± 0.8	kΩ

ENVIRONMENTAL

Storage and Operating Temperature	-20°C to +80° C
Compensated Temperature Range (Consult factory for other ranges)	0°C to +55°C
Extended Temperature Range	-54°C to + 95°C
Acceleration (Consult factory for high vibration options)	100g's any axis
Media Compatibility (wetted surface)	Titanium 6AL4V

ENVIRONMENTAL

Input Constant Voltage Excited [V DC]	12 -38
Maximum Voltage (for short periods) [V]	40
Input Load Resistance [Ω]	see chart
Insulation Resistance Minimum @50 VDC [MΩ]	50



ORDERING FORMAT EXAMPLE

MPT402X – XXXX – X MPT402C – 500A – L5

- Model
- Performance specification
- Pressure range bar (or PSI)
- Header option
  - G = Gage (no header)
  - A = Absolute
  - R = Sealed reference
- Long-term stability option
- LTS < 0.50 % FS/yr
- Absolute pressure
- 0 – 500 bar
- C Performance Option
- Model MPT402

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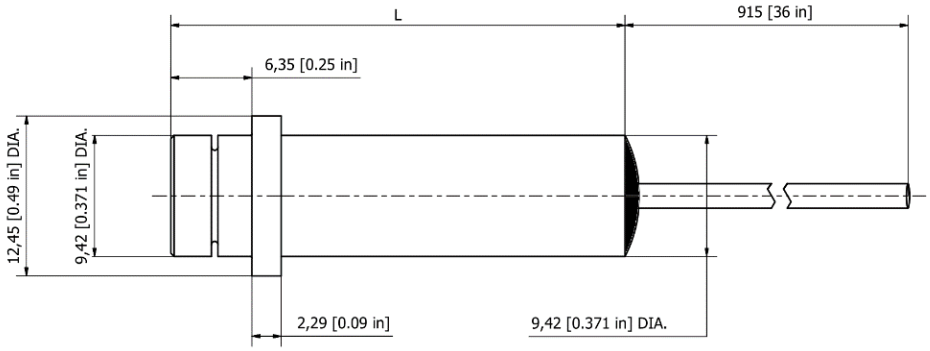
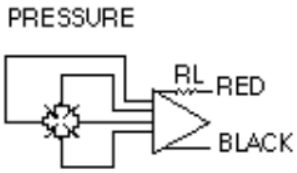
OUTLINE





Unit type	Transducer length L
Gage	78,74 mm [3.1 in]
Absolute, sealed reference	86,36m m [3.4 in]