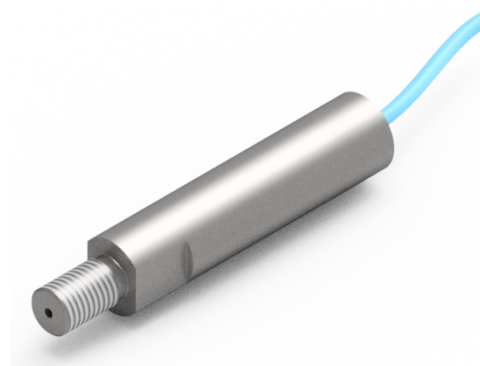


THREAD MOUNT PRESSURE and TEMPERATURE TRANSMITTER

MPT 502

GENERAL

- **Threaded, 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** options
- **High vibrations** options
- **Coating options** for liquids and bio-fluids (PTFE or nanostructured surface)



MECHANICAL

Standard pressure ranges	20	35	70	140	200	350	500	bar			
	300	500	1000	2000	3000	5000	7000	psi			
Non-standard pressure ranges	0.7	1	2	2	3.5	7	10	15	17.5	700	bar
	10	15	25	30	50	100	150	200	250	10000	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

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THREAD MOUNT PRESSURE and TEMPERATURE TRANSMITTER

PERFORMANCE

OPTIONS (ALL VALUES MAXIMUM)

Performance Option	A (STD)	B	C	D	
Balance (Zero)	4.00 ± 0.5	4.00 ± 0.3	4.00 ± 0.2	4.00 ± 0.2	mV
Full Scale Sensitivity	20 ± 0.5	20 ± 0.3	20 ± 0.2	20 ± 0.2	mV/V
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

PERFORMANCE (TEMPERATURE)

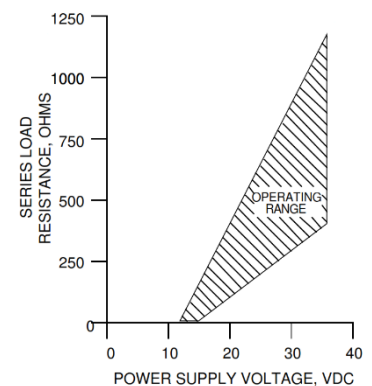
Balance @ 0°C	± 2.00	mA
Sensitivity (5.0 V DC excitation)	8.6 ± 0.9	mA/°C
Temperature Accuracy	± 0.27	°C
Input Resistance	6.5 ± 0.8	kΩ
Output Resistance	5.0 ± 0.8	kΩ

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

ELECTRICAL

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



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