



MINIATURE MODULAR PRESSURE TRANSDUCERS
MP3X-SERIES
DATASHEET



MP30 – CONSTANT VOLTAGE EXCITED

MP32 – CONSTANT CURRENT EXCITED

GENERAL

- **Flush mountable, miniature, low cost** pressure transducers
- Made of **corrosive resistant titanium** (6AL4V) – excellent performances with most corrosive and conductive media
- **Absolute or sealed reference** options - Sealing the sensitive gages to an inert environment dramatically increases stability and reliability
- **Long term stability** versions
- **High vibrations** options
- **Minimum size**
- **Configurable** length, diameter and flush mount/threaded



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	1	1.5	2	2.5	3	5	10	17.5	30	700		bar
	15	20	30	35	40	75	150	250	400	1000		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

Performance Option	OPTIONS (ALL VALUES MAXIMUM)				
	A (STD)	B	C	D	
Balance (Zero)	± 3.00	± 2.00	± 2.00	± 2.00	mV
Full Scale Sensitivity MP30	20 ± 2.00	20 ± 2.00	20 ± 2.00	20 ± 2.00	mV/V
Full Scale Sensitivity MP32	27 ± 1.40	27 ± 1.40	27 ± 1.40	27 ± 1.40	mV/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
Improved Long Term Stability Options	L10 < ± 1	L5 < ± 0.5	L2 < ± 0.2	L1 < ± 0.1	% FS/yr

ENVIRONMENTAL

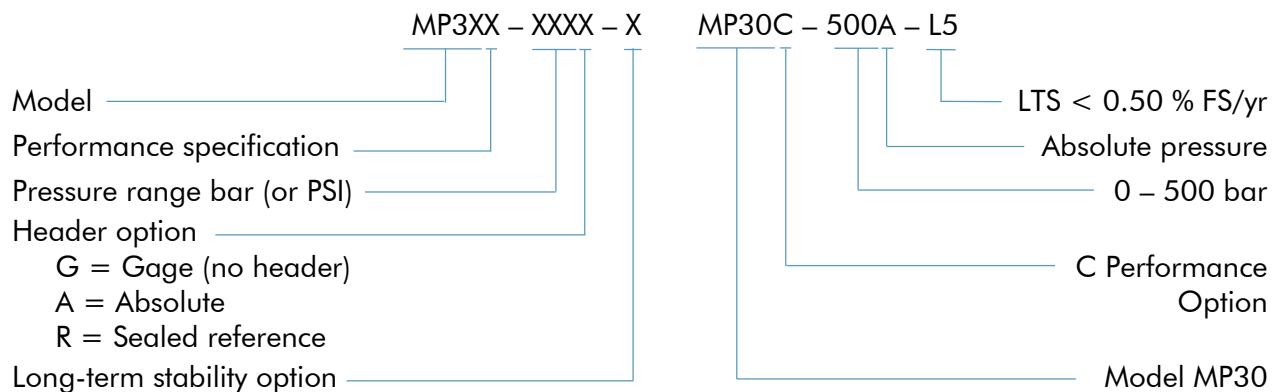
Storage and Operating Temperature	-20°C to +80°C
Compensated Temperature Range	0°C to +55°C
Extended Temperature Range	-54°C to + 95°C
High Temperature Version (consult factory)	-54°C to +125 °C (250 °C*)
Acceleration (consult factory for high vibration options)	100g's any axis
Media Compatibility (wetted surface)	Titanium 6AL4V

ELECTRICAL

	MP 30	MP 32
Input Constant Voltage Excited [V DC or AC]	5.0	-
Input Constant Current Excited [mA DC or AC]	-	4.0
Maximum Voltage (for short periods) [V]	30	30
Input Resistance [Ω]	3500 \pm 300	725 \pm 200
Output Resistance [Ω]	2000 \pm 200	600 \pm 150
Insulation Resistance Minimum @50 VDC [$M\Omega$]	50	50

ORDERING FORMAT

EXAMPLE



OUTLINE

Diaphragm size: 3 mm (2.5*)
 Type: flush mount or threaded sensor
 Length, thin section: 5 mm or any size, configurable
 Electronics section: 15 mm x dia. 9 mm OR fully separated board OR integrated mini-board (fits in the 3 mm diameter)

* consult factory for delivery time