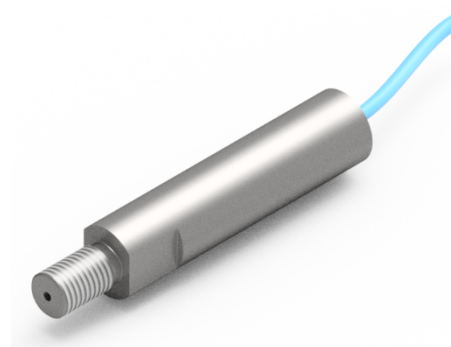


THREAD MOUNT PRESSURE TRANSDUCERS

MP50 – CONSTANT VOLTAGE EXCITED
MP52 – CONSTANT CURRENT EXCITED

GENERAL

- **Threaded, miniature, low cost** pressure transducers
- Made of **corrosive resistant titanium** (6AL4V) – excellent performances 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 | bar |
| | 25 | 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | 3000 | 5000 | psi |
| Non-standard pressure ranges | 1 | 1.5 | 2 | 2.5 | 3.5 | 7 | 10 | 15 | 17.5 | 700 | bar |
| | 15 | 20 | 30 | 35 | 50 | 100 | 150 | 200 | 250 | 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 |

HAPTICA S.r.l.

Place of business: Via Grazioli 2, 21052 Busto Arsizio (VA) Italy, - Registered office: Via Podgora 15, 20122 Milan, Italy
Website www.hapticasensing.com - Email info@hapticasensing.com - Phone +39 329 338 8201 / +39 0331 314395

THREAD MOUNT PRESSURE TRANSDUCERS

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 MP50 | 20 ± 2.00 | 20 ± 2.00 | 20 ± 2.00 | 20 ± 2.00 | mV/V |
| Full Scale Sensitivity MP52 | 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) | $< \pm 2$ | $< \pm 2$ | $< \pm 2$ | $< \pm 2$ | % FS/yr |
| Long Term Stability Options | L10 $< \pm 1$ | L5 $< \pm 0.5$ | L2 $< \pm 0.2$ | L1 $< \pm 0.1$ | % FS/yr |

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

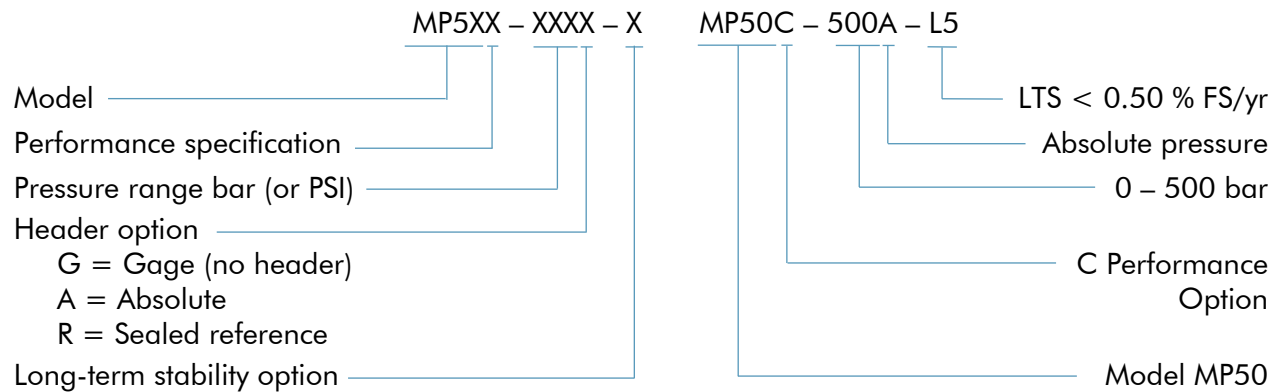
| | MP 50 | MP 52 |
|---|----------------|---------------|
| Input Constant Voltage Excited [V DC or AC] | 5 | - |
| Input Constant Current Excited [mA DC or AC] | - | 4.0 |
| Maximum Voltage (for short periods) [V] | 30 | 30 |
| Input Resistance [Ω] | 1400 ± 400 | 725 ± 200 |
| Output Resistance [Ω] | 850 ± 200 | 600 ± 150 |
| Insulation Resistance Minimum @50 VDC [M Ω] | 50 | 50 |

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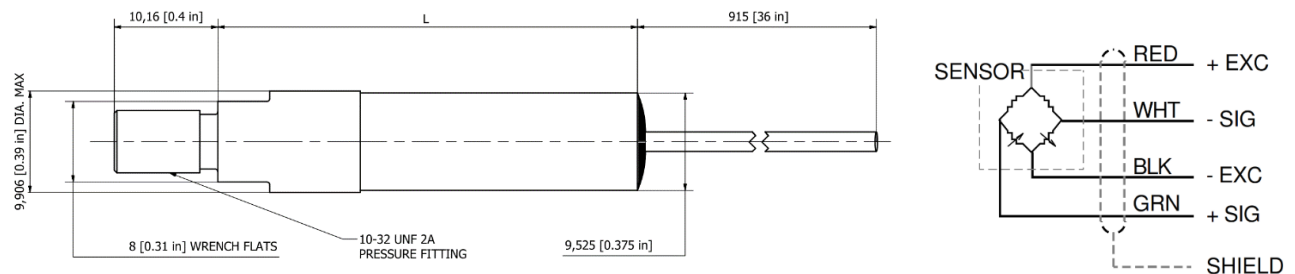
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THREAD MOUNT PRESSURE TRANSDUCERS

ORDERING FORMAT EXAMPLE



OUTLINE



| Unit type | Transducer length L |
|----------------------------|---------------------|
| Gage | 41,91 mm [1.65 in] |
| Absolute, sealed reference | 52,07 mm [2.05 in] |

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