



### ■ MP40

#### ■ Flush mount Pressure Transducer

- Ranges from 0...1 bar (15 psi) up to 0...700 bar (10000 psi)
- For general pressure measurement applications
- Operating temperature range -17°C...+80°C
- Absolute, gage and sealed reference pressure options

The **Model MP40** is a flush mountable, miniature, low cost, general use pressure transducers. These transducers are made of corrosive resistant titanium (6AL4V). They utilize high reliability bulk type semiconductor strain gages bonded directly to the inside surface of the machined diaphragm.

Titanium hermetic headers permit offering the MP40 series with absolute or sealed reference options. The hermetic header is located just behind the strain gage diaphragm section of the sensor. Sealing the sensitive gages to an inert environment dramatically increases stability and reliability. Long term stability versions are available. High vibration options are also available.

#### Applications

- :: Test and Measurement Equipment
- :: Production Equipment and Controls
- :: Energy Controls
- :: Laboratory Instruments and Equipment
- :: Liquid Level
- :: Calibration Equipment

#### Performance Options (all values maximum)

#### Options

	A	B	C	D	Unit
Balance (Zero)	±3,00	±2,00	±2,00	±2,00	mV
Full scale sensitivity	20,0 ±2,00	20,0 ±2,00	20,0 ±2,00	20,0 ±2,00	mV/V
Static error band	±0,50	±0,25	±0,25	±0,25	%FS *BFSL
Thermal balance (zero) shift	±0,02	±0,02	±0,01	±0,005	%FS/°F
	±0,04	±0,04	±0,02	±0,009	%FS/°C
Thermal sensitivity shift	±0,02	±0,02	±0,01	±0,005	%FS/°F
	±0,04	±0,04	±0,02	±0,009	%FS/°C
Long term stability		± 2,00			%FS/Year max.

#### Mechanical Data

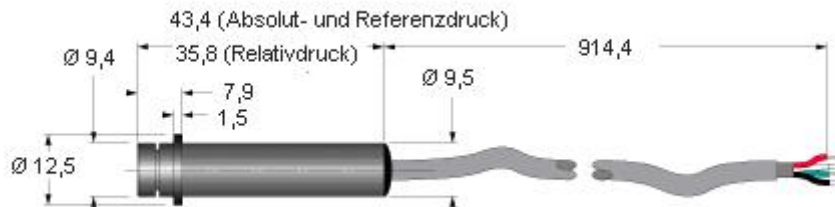
Standard pressure ranges	20 bar (300 psi) :: 35 bar (500 psi) :: 70 bar (1000 psi) :: 140 bar (2000 psi) :: 210 bar (3000 psi) :: 350 bar (5000 psi) :: 500 bar (7000 psi)
Non standard pressure ranges	1 bar (15 psi) :: 1,4 bar (20 psi) :: 1,7 bar (25 psi) :: 2 bar (30 psi) :: 2,4 bar (35 psi) :: 2,7 bar (40 psi) :: 3,5 bar (50 psi) :: 7 bar (100 psi) :: 10 bar (150 psi) :: 14 bar (200 psi) :: 17 bar (250 psi) :: 700 bar (10000 psi)
Other pressure ranges	on request
Over pressure (no change out of spec.)	2,0 x range
Usable pressure (small change in balance)	3,0 x range
Burst pressure	6,0 x range

### Environmental Data

Storage and operating temperature	-17...+80°C (0...180°F)
Compensated temperature range	-1...+54°C (30...130°F)
Other temperature compensated ranges	on request
Acceleration (high vibration options available)	100 g any axis
Media compatibility (wetted surface)	Liquids and gases compatible with titanium 6AL4V

### Electrical Data

Input constant voltage excited (MP40)	5,0 VDC
Max. voltage	30 V for short period
Input resistance (nominal)	1400 ±400 Ohm (MP40)
Output resistance (nominal)	850 ±200 Ohm (MP40)
Insulation resistance	min. 50 MOhm at 50 VDC



Dimensions in "mm"

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.  
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