



## JP Series General Pressure Transducer

### ► General Description:



The JP series pressure transducers are highly cost-effective and suitable low cost, high volume commercial and industrial applications. This series are all MEMS technologies, compensated with digital ASIC. EMI/RFI circuit is built in compact laser welded stainless steel case to supply highly accurate, reliable, and stable output for limit installation space.

This product is geared to the OEM customer using medium to high volumes with optional pressure ports and electrical connections. The standard version is suitable for many, but applications the dedicated design team stands ready to provide a custom design where the volume and application warrants.

### ► Features and Application:

Model	JPG2	JPG3
Principle	Silicon Strain Gage	Oil filled diffused Silicon
Features	<ul style="list-style-type: none"> <li>• MEMS, stainless steel construction</li> <li>• One piece construction, No "O" ring, No welds, No oil filled</li> <li>• Low cost; High reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Stainless steel isolated pressure cell</li> <li>• High accuracy, stability and repeatability</li> <li>• Wide pressure range, good compatibility</li> </ul>
Application	<ul style="list-style-type: none"> <li>• Air compressor, Natural Gas Compressor</li> <li>• Hydrogen, Oxygen equipment, HVAC</li> <li>• Diesel Engine</li> <li>• Industrial and Commercial pump</li> <li>• Injection, stamping, off-road machine</li> <li>• Commercial appliance or products</li> </ul>	<ul style="list-style-type: none"> <li>• High accurate pressure instrument</li> <li>• Industrial process control</li> <li>• Engine Test-stand</li> <li>• Constant pressure water supply system controlled by frequency converter</li> </ul>

### ► Specification (at 25°C):

Accuracy	$\pm 0.5\%FS$ , $\pm 0.25\%FS$ , $\pm 0.1\%FS$ (BFSL)
Range	0~10KPa TO 70MPa
Output & input	4~20mA, 1~5V, 0~5V @ 10~30V DC
	0.5~4.5V @ 5V (rationmetric)
Zero offset	$\leq \pm 1\%FS$
Span offset	$\leq \pm 1\%FS$

Pressure Cycling	>100 million
Over Pressure	2x rated
Burst Pressure	5x rated (Max. 150MPa)
Stability	$\leq \pm 0.25\%FS$ /year
Operation Range	-40~125°C
Compensation Range	0~70°C -25~85°C (Option)
Total Error Band	$\leq \pm 1\%FS$ ( within Comp temp )

## Ordering Information:

	Model										Description
Series	JP										Pressure
Protection Rate		G									General
		I									Intrinsically Safe
Principle			2								Silicon Gage
			3								Oil Filled diffused silicon
			4								Ceramic
Output				2							0.5~4.5V DC@5V DC
				3							0~5V DC
				4							1~5V DC
				5							4~20 mA
				X							Others
Fitting					M						M20×1.5mm
					N						1/4NPT
					G						G 1/4
					X						Others
Accuracy						5					±0.5%
						2					±0.25%
						1					±0.1%
						X					Others
Electrical Connection							C 1				1m Shielded cable
							C 2				2m Shielded cable
							P 1				Packard Connector
							H 1				Hirschman Connector 43650
Range & Unit								500KPa			Range 0~500KPa
Pressure Type									A		Absoluted
									G		Gage
									S		Sealed
Sample	JP G 2 5 N 5 C 1 - 5 0 0 K P a G										Silicon Gage type, output 4~20mA pressure 1/4NPT, 1m Shielded cable

## Dimensions:

Unit: mm

