

Penny & Giles Proportional Pressure Sensor PPS140

- Stainless-steel. flush diaphragm
- · Measurement ranges up to 1000bar
- Multiple pressure-connection options
- Multiple electrical-output options
- Accuracy 0.5%
- Environmentally robust

A thin-film, semiconductor measuring element bonded to a flush, stainless-steel diaphragm ensures excellent sensor performance in terms of long-term stability, measured-media compatibility and pressure peaks; so making the PPS140 suitable for use in a wide range of industrial applications. Overall robustness, even in the most challenging of hydraulic applications, is assured through the unit's welded stainless-steel housing.



STANDARD CONFIGURATIONS

MEASUREMENT RANGE										
GAUGE (BAR)	0.6	1	1.6	2	2.5	4	6	10	20	
ABSOLUTE (BAR)	1	2	2.5	6	10	20	40	60	100	
	160	200								
PRESSURE MODES	Gauge / Absolute									
PRESSURE CONNECTION	G 1/2 A Shape A G 1 A Shape E									
ELECTRICAL OUTPUT	4-20mA two wire		wire	4-20mA three wire		0-10V		1-5V		
	0.5-4	.5V ratio	metric							
ELECTRICAL CONNECTION	MVC/	MVC/A			MVC/C		Male M12X1 - S763		Flying lead	



SPECIFICATIONS

ACCURACY		
AT 20°C	0.5% of measurement range. Option for 0.25%. Includes non-linearity, hysteresis, zer offset and final offset in accordance with IEC 61298-2	
BEST-FIT STRAIGHT LINE	0.125%	
NON-LINEARITY	0.15% of measurement range	
REPEATABILITY	0.1% of measurement range	
STABILITY PER YEAR	0.1% of measurement range	
ELECTRICAL		
RESPONSE TIME	1ms over 10-90%	
OVER VOLTAGE	350Vdc. Option for 710Vdc	
MECHANICAL		
SENSING DIAPHRAGM	Silicon	
HOUSING	Stainless steel	
SHOCK RESISTANCE	1000g according to IEC 68-2-32	
VIBRATION RESISTANCE	20g according to IEC 68-2-2 and IEC 68-2-36	
MASS	80-120mg dependent on configuration	
CE-MARKING	To 2004/108/EC	
IP RATING	Per electrical connector rating	
TEMPERATURE		
MEASURED MEDIA	-30°C to 100°C	
OPERATING	-30°C to 100°C	
STORAGE	-40°C to 100°C	
COMPENSATED RANGE	-20°C to 85°C	
TEMPERATURE COEFFICIENTS V	VITHIN THE COMPENSATED RANGE	
MEAN OFFSET	0.015%/°C of measurement range	
MEAN RANGE	0.015%/°C of measurement range	
TOTAL ERROR	-30°C 2% of measurement range, 100°C 2% of the measurement range	

For detailed specifications of pressure ratings, pressure connections, electrical outputs and electrical connections, refer to the Pressure Sensors General Specification document.

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A Brea California T: +1.714.982.1862 F: +1.714.982.1861 cwig.us@curtisswright.com www.cw-industrialgroup.com Europe Christchurch
United Kingdom
T: +44.1425.271444
F: +44.1425.272655
cwig.uk@curtisswright.com
www.cw-industrialgroup.com

Asia Shanghai China T: +86.213.3310670

> cwig.cn@curtisswright.com www.cw-industrialgroup.com

