

Penny & Giles Proportional Pressure Sensor PPS130

- **Stainless-steel diaphragm**
- **High-pressure measurement ranges up to 4000bar**
- **Burst-pressure rating up to 6000bar**
- **Multiple pressure-connection options**
- **Multiple electrical-output options**
- **Accuracy 0.5%**
- **Environmentally robust**

A thin-film, semiconductor measuring element bonded to a stainless-steel diaphragm ensures excellent sensor performance in terms of long-term stability, measured-media compatibility and pressure peaks; so making the PPS130 suitable for use in a wide range of high-pressure 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 (bar)	1600	2000	2500	4000
PRESSURE MODE	Gauge			
PRESSURE CONNECTION	Male M18x1.5	Female M16x1.5		
ELECTRICAL OUTPUT	4-20mA two wire 0.5-4.5V ratiometric	4-20mA three wire	0-10V	1-5V
ELECTRICAL CONNECTION	MVC/A	MVC/C	Male M12 - S763	Flying Lead

SPECIFICATIONS

ACCURACY	FOR PRESSURE ≤ 2000	FOR PRESSURE >2000 to 4000
AT 20°C	0.5% of measurement range. Option for 0.25%.	1% of measurement range.
	Includes non-linearity, hysteresis, zero offset and final offset in accordance with IEC 61298-2	
BEST-FIT STRAIGHT LINE	0.25%	0.5%
NON-LINEARITY	0.15% of measurement range	0.3% of measurement range
REPEATABILITY	0.1% of measurement range	0.2% of measurement range
STABILITY PER YEAR	0.1% of measurement range	0.2% of measurement range
ELECTRICAL		
RESPONSE TIME	1ms over 10-90%	
OVER VOLTAGE	350Vdc. Option for 710Vdc	
MECHANICAL		
SENSING DIAPHRAGM	Stainless steel	
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	120-150mg dependent on configuration	
CE-MARKING	To 2004/108/EC	
IP RATING	Per electrical connector rating	
TEMPERATURE		
MEASURED MEDIA	-40°C to 125°C	
OPERATING	-40°C to 105°C. Option for -55°C	
STORAGE	-40°C to 125°C	
COMPENSATED RANGE	-20°C to 85°C	
TEMPERATURE COEFFICIENTS WITHIN THE COMPENSATED RANGE		
MEAN OFFSET	0.015%/°C of measurement range	
MEAN RANGE	0.015%/°C of measurement range	
TOTAL ERROR	-40°C 2% of measurement range, 105°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.