

- **Stainless-steel diaphragm**
- **Measurement ranges up to 4000bar**
- **Multiple pressure-connection options**
- **Multiple electrical-output options**
- **Accuracy 0.5%**
- **Environmentally robust**
- **Exceptional EMC performance**



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 PPS100 suitable for use in a wide range of industrial applications. Overall robustness, even in challenging mobile hydraulic applications, is assured through the unit's welded stainless-steel housing.

EMC immunity levels up to 300V/m are achievable with the ratiometric electrical-output configuration.

**STANDARD CONFIGURATIONS**

<b>MEASUREMENT RANGE (bar)</b>	4	6	10	16	20	25	40	60
	100	160	200	250	400	600	1000	1600
	2000	2500	4000					
<b>PRESSURE MODE</b>	Gauge							
<b>PRESSURE CONNECTION</b>	G 1/4 A		1/4 NPT		M14x1.5 Shape E		M12X1.5 Shape E	
	9/16-18UNF-2A		7/16-20UNF-2A SAE 514					
<b>ELECTRICAL OUTPUT</b>	4-20mA two wire		4-20mA three wire		0-10V		1-5V	
	0.5-4.5V ratiometric							
<b>ELECTRICAL CONNECTION</b>	Junior Timer		Packard		Superseal		Male M12X1 - S763	
	Flying lead		Deutsch 3-pole		Deutsch 4-pole		Bayonet - DIN 72585	

## SPECIFICATIONS

### ACCURACY

AT 20°C	0.5% of measurement range. Option for 0.25%. Includes non-linearity, hysteresis, zero 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	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	80-120mg dependent on configuration
CE-MARKING	To 2004/108/EC
IP RATING	Per electrical connector rating
OPTIONS	Load dump module, restrictor

### 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.