

Low Range Stainless Steel Amplified & Non-Amplified Output **PRESSURE SENSOR**

Pi600 Series



- **Pressure Ranges 0-25mbar to 0-700bar**
- **Gauge or Absolute Versions**
- **Sealed to IP65 (Plug & Socket) or IP66/68 (Cable)**
- **Excellent Chemical and Abrasion Resistance**
- **Rugged Construction**
- **Wide Choice of Electrical Outputs**

Options Available

Interim Pressure Ranges (Consult Factory)

Manufactured from Different Materials for Different Application Compatibility

Special Output Scaling (Consult Factory)

6-Pin Bayonet connector or DIN43650 Plug & Socket (Hirschmann)

Improved accuracy (NL&H) - $< \pm 0.10\%$ /span BFSL

Improved accuracy (TZS) - $< \pm 0.02\%$ or $< \pm 0.01\%$ /span/°C (Thermal Zero Shift)

Supplied With Any Instrumentation and Calibrated as a Complete System with Traceable Certificate

316 Stainless Steel case or High Grade Stainless Steel Case

DESCRIPTION

The Pi600 series of pressure sensors has been engineered for the measurement of liquid and gas pressures in a diverse range of industrial and specialised applications, including:- Hydraulics, Pneumatics, Agriculture, Marine, Sewage, Gas, Medical, Chemical, Food Processing, Barometers, Dataloggers etc.

Pressure ranges between 0-25mbar and 0-700bar are available in gauge or absolute* models with a wide choice of electrical output signals to meet operational requirements.

Constructed from stainless steel with a ceramic diaphragm (316 Stainless Steel diaphragm below 500mbar), the Pi600 series of transducers are extremely rugged yet of compact design.

The Pi600 series can be further complimented by any of our range of instrumentation to offer a complete system, supplied and calibrated from a single source.

* Minimum absolute range 0-500mbar.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

Tel: (+44) 0118 981 7339 Fax: (+44) 0118 981 9121 email: info@appmeas.co.uk Internet: www.appmeas.co.uk



SPECIFICATION

CHARACTERISTICS	Pi607	Pi610 ¹	Pi605	Pi645	Pi6010	Pi642	UNITS
Pressure Ranges:	0.025, 0.05, 0.1, 0.16, 0.25, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 400, 600, 700						bar (Gauge or Abs)
Rated Output:	2mV/V	10mV/V	0-5V	0.5-4.5V	0-10V	4-20mA	± 1%/Span
Excitation Voltage:	2-32 (regulated) ²		10-32	5 (reg)	13-32	10-32	Vdc (un-regulated unless stated)
Input Current:	<3		<4		<4	n/a	mA
Output Configuration (No. of Wires):	4		3		3	2	
Response Time:	<1		<10				milliseconds
Combined Error (Accuracy):	<0.25 (<0.10 optional) ³						± % of Rated Output
Zero Balance:	<1.0						± % of Rated Output
Safe Overpressure:	150 (110% on ranges above 350bar)						% of Pressure Range
Temperature Range Compensated:	+20 to +80						°C
Media:	-20 to +135 (-20 to +120 on ranges below 0.5bar)						°C
Temperature Effect On Span:	<-0.015						% of Output/°C
On Zero:	<0.04 (<0.02 optional on all ranges, <0.01 option on ranges down to 0.5bar)						± of Rated Output/°C
Stability:	<0.1 over 12 months						± % of Rated Output
Input Resistance:	<11000		<500				ohms
Output Resistance:	<11000/200 nom.		<500				ohms
Insulation Resistance:	>500						Megaohms at 50Vdc
Media Compatibility:	Any media compatible with Al ₂ O ₃ , Alumina Ceramic, Stainless Steel & seal of choice (Viton, NBR or EPDM available) - Note: No Ceramic below 0.5bar						
Weight:	100						Grams
Environmental Protection:	IP65 (plug & socket) or IP66 with 2m cable (standard) (IP68 ⁴ cable optional)						

¹ mV/V output is not available below 0.5bar

² 10Vdc nominal excitation. Please advise on order if transducer is to be used with 28-32Vdc excitation

³ Combined Error (Accuracy) is the combined error caused by the effects of Non-Linearity, Hysteresis and Repeatability

⁴ IP68 rated to 1 metre depth maximum

All dimensions in mm

