

# Pi600R Series PRESSURE SENSOR



## Stainless Steel Pressure Transducer



- **Pressure Ranges –1 to 700bar**
- **Gauge or Absolute Versions**
- **Sealed to IP67 with M12 connector**
- **Excellent Chemical and Abrasion Resistance**
- **Rugged Construction**
- **Wide Choice of Electrical Outputs**
- **Excellent Performance/Price Ratio**

### Options Available

Interim Pressure Ranges (Consult Factory)

Manufactured from Different Materials for Different Application Compatibility

Special Output Scaling (Consult Factory)

M12 Connector

Improved accuracy (NL&H) -  $<\pm 0.10\%$  or  $<\pm 0.05\%$ /span BFUL

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

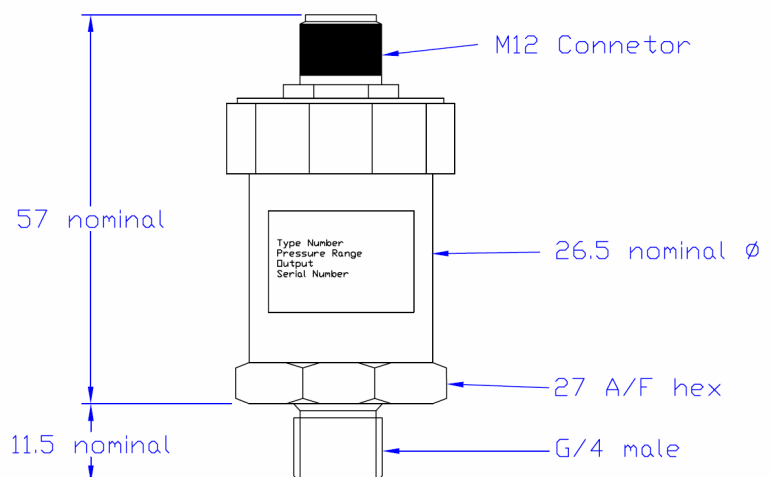
Supplied With Any Instrumentation and Calibrated as a Complete System with Traceable Certificate

## DESCRIPTION

The Pi600R 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 –1 and 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, the Pi600R series of transducers are extremely rugged yet of compact design.

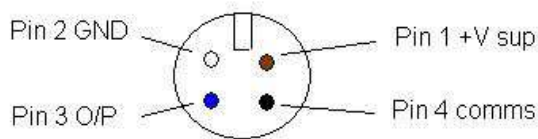


# Pi600R Series PRESSURE SENSOR

## SPECIFICATION

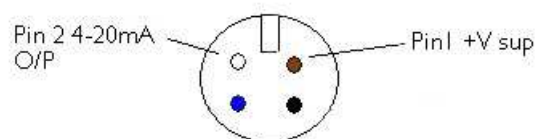
Characteristics	Pi605	Pi642	Units
Pressure Ranges:	-1, -1 - +1, 2, 5, 6, 10, 16, 20, 40, 60, 100,	150, 200, 300, 400, 500, 600, 700	Bar gauge
Rated Output	0.5-4.5V	4-20mA	
Excitation Voltage	5V(regulated)	10-32 (unregulated)	VDC
Input Current	<3	N/a	mA
Output Config	3 wire	2 wire	No. of wires
Accuracy	0.25 (<0.10 or <0.05	optional )	+/- % of rated O/P
Zero balance		<0.1	+/- % of rated O/P
Safe Overpressure		150	Of Pressure Range
Temperature range	Compensated	+20 to +80	°C
	Operating	-20 to +100	°C
Temperature Effect	On Span	<0.010	+/- of Output/°C
	On Zero	<0.040(<0.020 Or<0.010 optional)	+/- of Rated Output/°C
Stability		<0.1 over 12 months	+/- of Rated Output
Input Resistance	1100	n/a	ohms
Output Resistance	1100	n/a	ohms
Insulation		>500	Meg ohms at 50vDC
Media Compatability	Any media Compatible with 316	L St St, Alumina & Seal of choice	
Weight		100	Grams
Protection	I.P. 67 with M12 connector		

Pi605R M12 Connections  
Rear View



The connection above shows the rear view of the connector with screw terminals. If a yellow 2 metre lead is supplied then the brown wire is used for the +ve supply and the blue wire for the 0.5-4.5v signal. The white wire is connected to the common or ground.

Pi642R M12 Connector  
Rear View



The connection above shows the rear view of the connector with screw terminals. If a yellow 2 metre lead is supplied then the brown wire is used for the supply and the white for the signal.

In a typical 4-20mA loop the Pin1 +V sup is connected to the positive side of the power supply. Pin 2 4-20mA O/P is connected to the +ve input terminal of the data logger or display, and the negative input terminal of the logger/display is connect to the -ve side of the power supply. Some devices may need a shunt resistor across the input terminals. A 249 ohm shunt resistor will convert a 4-20mA signal to a 1-5v signal.