

# High Range, Field Adjustable Titanium/Silicon-on-Sapphire **PRESSURE SENSOR**

**P600FA  
Series**



- **Pressure Ranges 0.5 to 2500bar**
- **Vented Gauge**
- **Sealed to IP65**
- **Excellent Chemical and Abrasion Resistance**
- **Rugged Construction**
- **Wide Choice of Electrical Outputs**
- **Field Adjustable output range**
- **Excellent Performance/Price Ratio**
- **FAST DELIVERY**
- **3 YEAR WARRANTY**

#### **Options Available**

Interim Pressure Ranges (Consult Factory)

Special Output Scaling (Consult Factory)

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

ATEX Certified Version: II I GD EEX ia IIC T4

## **DESCRIPTION**

The P600FA 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 500mbar and 2500bar are available offering field adjustment of both span and zero for quick and easy re-ranging of the sensor.

Constructed from Titanium using Silicon on Sapphire technology it offers excellent long term performance throughout the complete range of pressures.

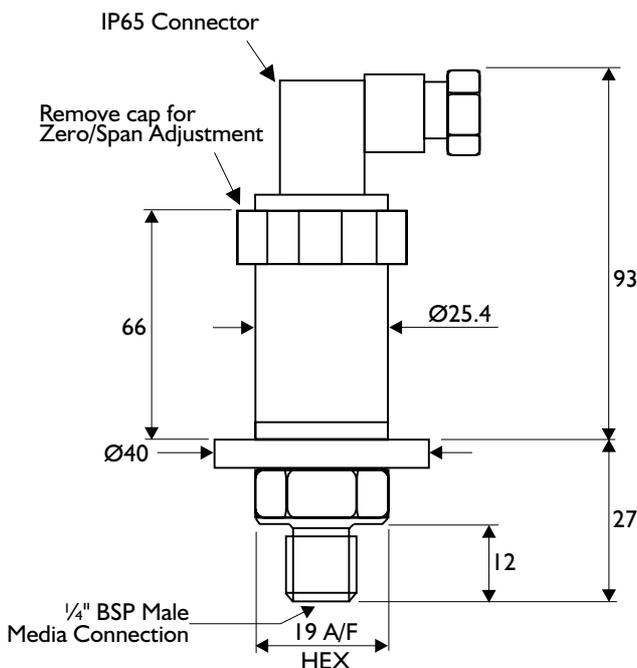
The P600FA series can be further complimented by any of our range of instrumentation to offer a complete system, supplied and calibrated from a single supplier.

# SPECIFICATION

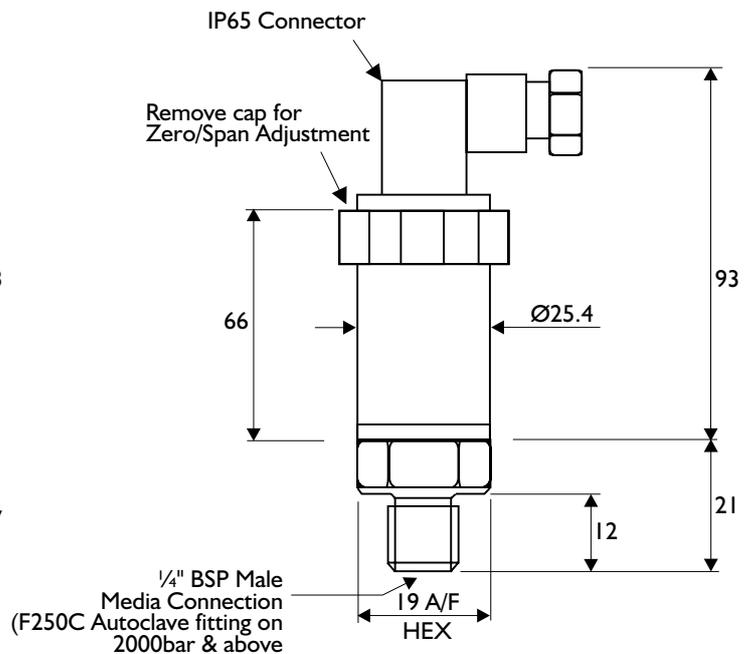
CHARACTERISTICS	P610FA	P605FA	P6010FA	P642FA	UNITS
<b>Pressure Ranges:</b>	0.5, 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60 100, 160, 250, 400, 600, 1000, 1500, 2000, 2500				bar
<b>Rated Output:</b>	10mV/V	0-5V	0-10V	4-20mA	
<b>Excitation Voltage:</b>	5-15 (regulated)	13 to 36 (un-regulated)			VDC
<b>Input Current:</b>	0.6mA/V	13		N/A	mA
<b>Output Configuration (No. of Wires):</b>	4	3 or 4		2	
<b>Combined Error (Accuracy):</b>	< ±0.25				±% of Rated Output
<b>Zero Balance:</b>	< 1.0				±% of Rated Output
<b>Safe Overpressure:</b>	200 (3000bar max over-pressure on 2000 & 2500bar ranges)				% of Pressure Range
<b>Temperature Range Compensated:</b>	-40 to +80				°C
<b>Operating:</b>	-50 to +120				°C
<b>Temperature Effect On Span:</b>	< 0.030				±% of Output/°C
<b>On Zero:</b>	< 0.030				± of Rated Output/°C
<b>Stability:</b>	< 0.2 over 6 months				±% of Rated Output
<b>Input Resistance:</b>	1500 ±30%	N/A			ohms
<b>Output Resistance:</b>	1500 ±30%	N/A			ohms
<b>Insulation Resistance:</b>	> 100				Megaohms at 500VDC
<b>Media Compatibility:</b>	Any media compatible with BT9 Titanium Alloy				
<b>Weight:</b>	90				grams
<b>Environmental Protection:</b>	IP65				

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

## All dimensions in mm



**Dimensions for 0.5 to 1 bar ranges**



**Dimensions for 2 to 2500 bar ranges**