

Stainless Steel Amplified Output

PRESSURE SENSOR with **BUILT-IN DISPLAY**

**Pi600DD
Series**



- **Pressure Ranges 0-25mbar to 0-700bar**
- **Gauge or Absolute Versions**
- **4-Digit Red LED Display**
- **Sealed to IP65**
- **1 or 2 Set-Points**
- **Excellent Chemical and Abrasion Resistance**
- **Rugged Construction**
- **3 YEAR WARRANTY**

Options Available

Interim Pressure Ranges (Consult Factory)

Manufactured from Different Materials for Different Application Compatibility (316 St/Steel or High Grade Duplex St/Steel)

Improved accuracy (NL&H) - $< \pm 0.10\% / \text{span BFLS}$

Improved accuracy (TZS) - $< \pm 0.02\%$ or $< \pm 0.01\% / \text{span} / ^\circ\text{C}$ (Thermal Zero Shift)

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

DESCRIPTION

The Pi600DD series of pressure sensors with an integrated digital display has been engineered for the measurement of liquid and gas pressures in a diverse range of industrial and specialised applications where local monitoring and control is required, including:- Hydraulics, Pneumatics, Agriculture, Marine, Sewage, Gas, Medical, Chemical, Food Processing, Barometers, 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 Pi600DD series of transducers are extremely rugged yet of compact design.

The Pi600DD 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

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SPECIFICATION

CHARACTERISTICS	Pi6010DD	Pi642DD	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:	0-10V	4-20mA	± 1%/Span
Excitation Voltage:	21-32	16-32	Vdc
Output Configuration (No. of Wires):	3	2	
Response Time:	100		milliseconds
Set-Points / Switch Outputs:	Choice of 0, 1 or 2*		
Combined Error (Accuracy):	<0.25 (<0.10 optional)**		± % 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
Ambient:	-25 to +85		°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
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:	250 approx		grams
Environmental Protection:	IP65		

All dimensions in mm

* For 2 set-points with 4-20mA output M12x1 5-pin connector is required (replaces DIN43650).

For 1 or 2 set-points with 0-10Vdc output M12x1 5-pin connector is required (replaces DIN43650).

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

Connector DIN 43650

