

1000 Series

OEM Customised Pressure Sensor Product Guide



Total Capability for a World of Pressure

High performance technologies

Established in 1972, GE Druck specialises in the design and manufacture of high performance pressure sensors for a wide range of industries and applications, using proven micromachined silicon and related technologies.

GE Druck has its own comprehensive and technologically advanced silicon processing facility. It is one of only a few companies worldwide converting raw silicon into finished products, using techniques such as advanced micromachining. This ensures high sensor performance.

Multi-disciplined engineering teams are experienced in the use of hybrids, ASICs, microprocessors and surface mount technology. Together with packaging design and other facets of engineering, GE Druck provides a complete solution for the world of pressure measurement.

The GE Druck 1000 Series concept

This flexible product is aimed at OEM manufacturers who require a high quality, cost effective pressure sensor, designed to meet their own specific application requirements at an economical cost. It is manufactured in high volumes using a standard "core" principle which readily enables variation of the final product configuration.

Flexibility for all applications

Using just a few established core sensor elements, a comprehensive range of customised sensors has been established to meet a wide spectrum of industrial applications. In excess of 2000 individual configurations are available and just a small selection is shown on the centre pages of this document. Whatever sensor configuration or enhancement you may require, the 1000 Series provides a cost effective solution.

Build quality

GE Druck is committed to producing the highest quality products. This commitment extends from initial concept and development through to manufacturing, testing and despatch.

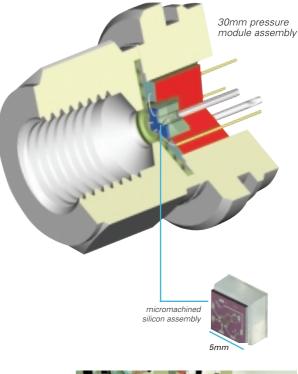
GE Druck is approved to the highest international quality standards, including ISO 9001 and many industry specific standards. It is also approved by many companies who apply their own specific, detailed QA requirements.

In addition, UKAS accredited GE Druck Laboratories provide traceability to International Standards for pressure, electrical and temperature measurements.

Product guide and selection

The "Customer Selection Guide" overleaf is designed to enable you to respond with your specific sensor requirements. You can faxback the completed page and view the complete guide on or website at www.ge druck.com.

Alternatively, simply contact us direct and we will be pleased to arrange for a specialist engineer to personally discuss your detailed requirements at your convenience.

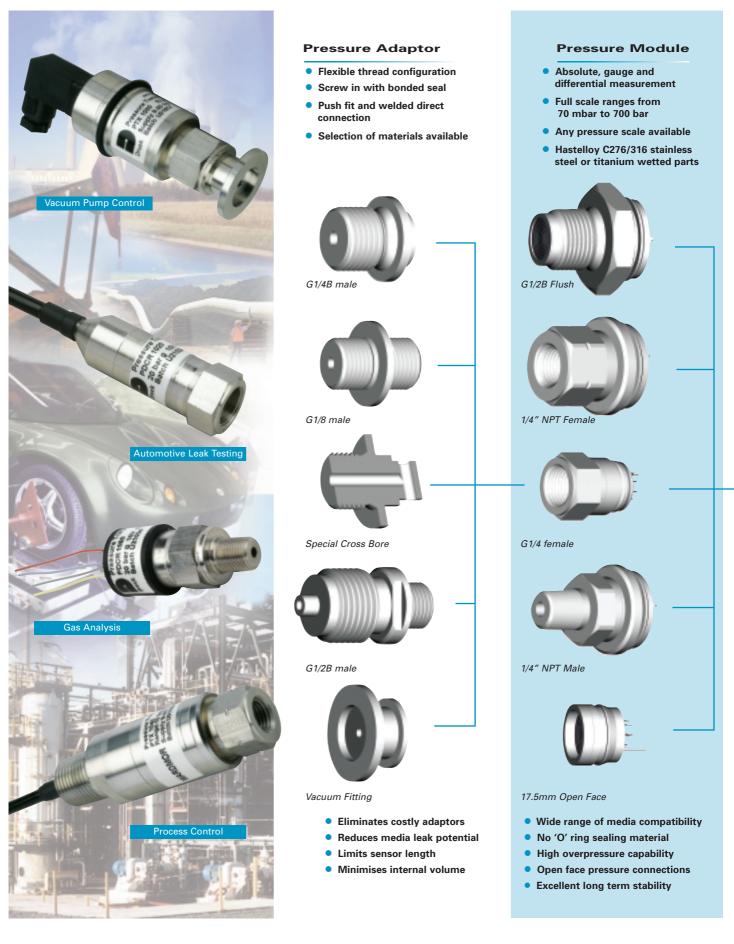








Cost effective flexibility and high performance



Electronics

- Millivolt 17.5mm diameter
- Voltage and milliamp 30mm diameter
- Ambient temperature rated from -40° to 90°C
- Zero/span potentiometer available with side or end access
- Welded or push fit body tube sealing



Voltage

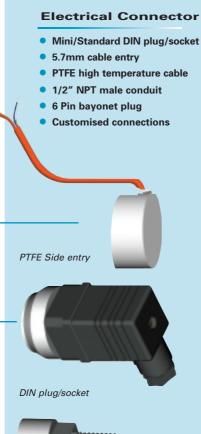


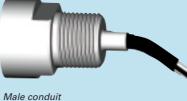
Millivolt



Milliamp

- Hazardous area approved
- Output signal to match application requirements
- Hermetic sealing up to IP 68 for harsh environments
- Encapsulated electronics for good shock/vibration performance
- Digital characterisation for ultra high performance



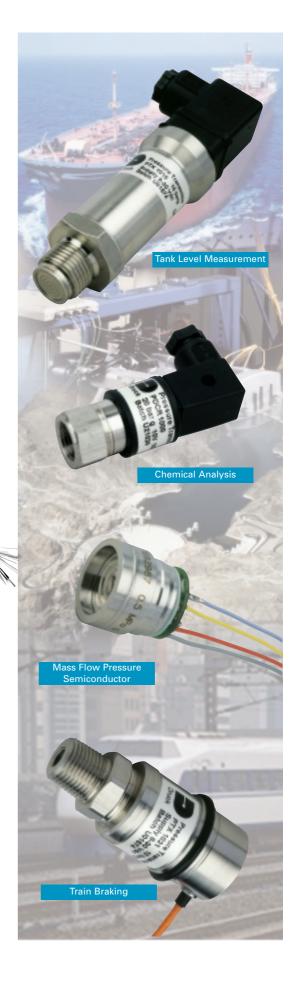




6 Pin bayonet



- Customised connections
- Excellent strain relief
- Electrical connection to match application requirements
- Flexible cable lengths



Customer Selection Guide

To allow us to fully understand your requirements, please complete below and return to your GE Druck sales outlet or via www.druck.com.

APPLICATION	GUIDELINES
	Example - Compressor outlet pressure
CRITICAL PARAMETERS	
	Example - 100 million cycles Example - 6 months to production
WORKING PRESSURE RANGE	Min 70 mbar Max 700 bar
MAXIMUM OVERPRESSURE	Min x 2 FS Max x 4 FS
MAXIMUM CASE PRESSURE	6 × FS
PRESSURE SCALE UNITS	Any scale i.e. psi, kPa, etc
ACCURACY OVER PRESSURE RANGE	Up to 0.15% FS
MINIMUM/MAXIMUM PROCESS TEMPERATURE	-40°C to 90°C
PRESSURE MEDIA IN CONTACT WITH WETTED PARTS	example - mineral oil
AMBIENT ENVIRONMENTAL CONDITIONS	Sealing up to IP68
PREFERRED PRESSURE CONNECTION	Any type of standard assembly
PREFERRED ELECTRICAL CONNECTION	Any type of standard assembly
AVAILABLE POWER SUPPLY	MV - non-regulated V, mA - regulated
	mV, mA, V
	mV - 17.5mm, V/mA 30mm dia
SPECIAL CERTIFICATION	E
	Example - ATEX Intrinsically Safe
OTHER SPECIAL REQUIREMENTS	
	Example - Optimised temperature effects across working process temperature range.

Product Guide

Related Products





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Agent: