Druck

Pressure Modules Capability Guide

Accuracy, Stability, Reliability.

druck.com

At Druck, we understand that sometimes you may not need a finished sensor product due to your type of application. That's why we offer modules with a large variety of changing variables which we can customise to suit your unique application. To adapt to the application environment, we offer different types of silicon, pressure ranges, temperature, size and material.

All of these parameters can be modified whilst still maintaining high levels of accuracy, stability and reliability for your application.

Our Module capabilities are almost limitless.

Custom Product Offering

A process exists to allow us to serve customers applications whose requirements are not met by a datasheet product.

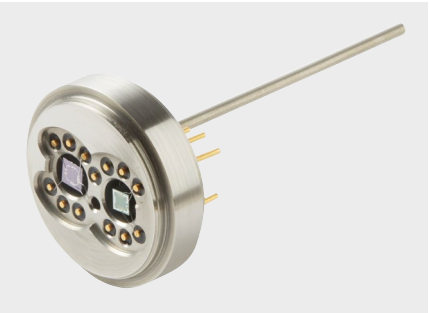
The Process is split into two:

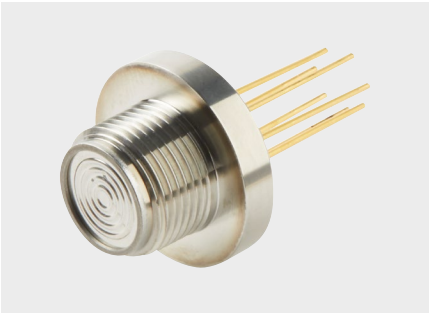
1: Inquiry to Order (ITO)

- The purpose of ITO phase of the CPO process is to take the customer's requirements and generate a quote consisting of a technical specification, price and lead time
- We use our Design Engineering team to design a product which is then assessed by our Manufacturing and Planning teams to estimate cost and lead time
- We then provide a proposal to the customer

2: Order to Remittance (OTR)

- Order to Remittance (OTR)
- Upon receipt of an order, the OTR phase formalises the design proposed to the customer and releases it into our manufacturing system, driving acquisition and assimilation of materials, allowing us to book the order and manufacture the product which is then shipped to the customer





Key features

Fully compensated accuracy to 0.1% FS

Proof pressure typically 4x operating

Fully welded capsule construction

Unlimited pressure cycle

Operating temperature -55˚C to 175˚C

Bespoke mechanical interfacing

Left module: titanium Right module: stainless steel

Diameter options

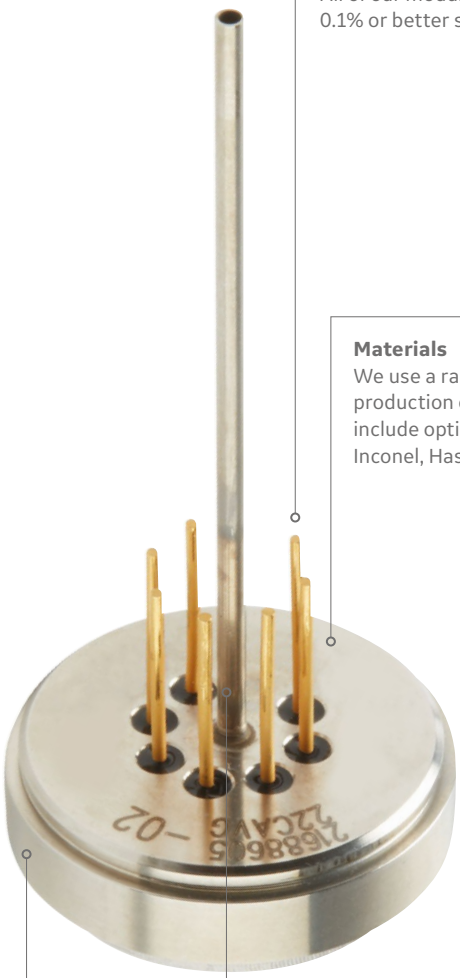
Our modules are available in a variety of sizes depending on your application. We currently offer;

- **12.5mm** – Commonly for applications in confined spaces
- **17.5mm** – Commonly used in depth and level applications
- **19mm** – For use in Industrial applications
- **25mm** – Used in lower pressure applications

Although these diameters are our standard offerings, we can offer alternative sizes if required.

Accuracy
All of our module boast
0.1% or better stability full scale.

Materials
We use a range of materials in the production of our modules. These include options of Stainless Steel, Inconel, Hastelloy and Titanium.



Pressure Reference
We offer absolute, gauge and differential pressure references.

Silicon
We offer different types of silicon with various resistances, all produced in our state of the art silicon production facility. We offer resistances of 350 Ohms, 700 Ohms, 2000 Ohms and 5000 Ohms.

Pressure ranges

- **D12.5mm**: 1 bar to 70 bar
- **D17.5mm**: 350 mbar to 70 bar
- **D19mm**: 350 mbar to 70 bar
- **D25mm**: 70 mbar to 100 bar

High pressure options available:

- **D22/M14**: 70 bar to 1400 bar

To achieve the quoted pressure limits adequate control is required on the connection and sealing methodology.

Performance

Provided with the correct characterisation and compensation, Druck modules are capable of an accuracy of 0.1% FS over a typical temperature range of -40°C to +80°C.

For technical enquiries and to discover more of our module capabilities – please consult a member of the Druck team.