

## DropGauge

*Rapid access to bottom-hole pressure data*

The Well-SENSE DropGauge provides a fast and convenient method of obtaining a bottom-hole pressure reading from any borehole or well. It is available in 5,000psi and 10,000psi variants and operates in temperatures up to 150C. This high-quality tool is low-cost and simple to deploy by any onsite well technician.



### What is it and how does it work?

The DropGauge is a small aluminium probe containing a pressure transducer and fibre-optic line, which is deployed into the well using our wellhead launcher. Pressure data is conveyed from the probe, via the fibre, back to a surface recorder with real-time readings displayed on a laptop. As soon as a stable pressure reading is confirmed, the survey can be concluded and the system rigged down. The probe and fibre are disposable so can be left in the well if preferred, without risk to future operations.

### Why is it valuable?

Static bottom-hole pressure data is valuable throughout the well's lifecycle and at the end of its serviceable life. Well performance and reservoir models rely on accurate input to generate valid results. A simple pressure data point can improve the accuracy of these models leading to better production optimisation, reserves evaluation and enhanced recovery planning.

At the end of a well's life, many planned for abandonment have no recent data to aid effective well control planning. Conventional intervention in old and shut-in wells presents a high risk of stuck tools and broken cables. A simple pressure survey with a DropGauge is a cost-effective means of obtaining valuable well data, including hold-up-depth (HUD), while eliminating the risk of complex fishing operations.

### Key benefits

**No additional POB.** Operation is very simple so Well-SENSE field engineers are not required for DropGauge deployment.

**Precise.** Data readings are very accurate and provide a direct measurement of the bottom hole pressure, with no need for guess work, assumptions or calculations.

**Real-time.** Pressure data is delivered to your laptop at the speed of light.

**Efficient.** Surveys take around 2-4 hours per well from start to finish.

**Competitive.** Downhole measurement at topside survey prices.

**Low risk.** Provides accurate hold-up depth information without risking complex wireline fishing operations.

### Operation Sequence



## Key features

- 01 High accuracy pressure transducer.
- 02 A downhole laser delivers real-time surface readouts via optical fibre.
- 03 Magnetic power-up of gauge reduces leak paths.
- 04 Powered by standard AA alkaline batteries – no dangerous goods.
- 05 Hand-held surface data acquisition system converts the laser signal to an electronic laptop input.
- 06 Single laptop surface read out monitors downhole pressure and temperature.
- 07 Transducer, electronics and batteries are <8in long and weigh only 500g.



## Product Specifications

Pressure gauge rating	5,000 & 10,000psi
Accuracy	5psi
Resolution	1psi
Samples per second at surface	1 (real-time)
Max. operating temperature	150°C
Length	42"
OD	2.75"



## Example BHP DropGauge Readings

