



GENERAL DESCRIPTION

Combining mono-crystal micro sensing elements with corrosion and HPHT resistant protective casing that can fit in the palm of your hand, OpenField™ sensors are unique in making microchip technology work in the harshest environments, giving well operators superior data on downhole pressure and temperature.

IDEAL FOR PRESSURE TRANSIENT ANALYSIS

Thanks to its extremely fast settling time, OpenField™ proprietary MEMS technology drastically improves dynamic data acquisition and interpretation during Well Test operations.

DUAL GAUGE DOWNHOLE FLOW MEASUREMENT

When mounted on a special mandrel, two gauges are used as a Venturi flow-meter, achieving high measurement performance with minimal restriction.

THE BENEFITS OF MINIATURIZED TECHNOLOGY

The small size of our revolutionary pressure and temperature gauges offers key advantages to well operators, including easy deployment, immediate responses to changing conditions, and low power consumption for up to 1 month of downhole monitoring with a sub-AAA battery. All of this with data quality superior even to Quartz technology.

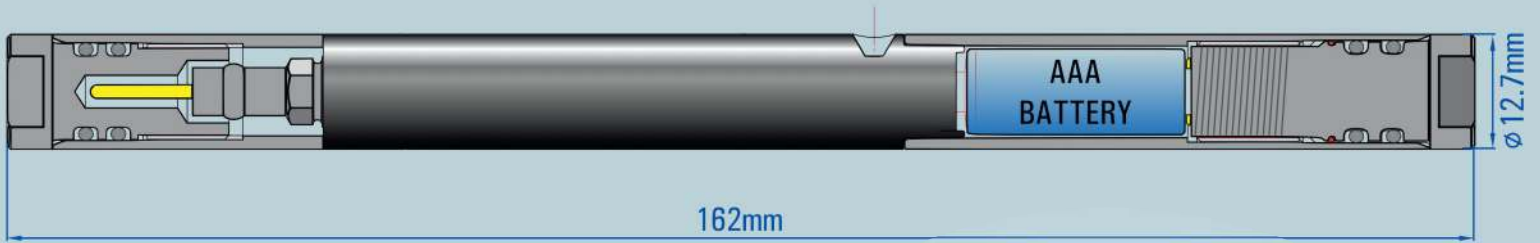
FEATURES

OD	12.7mm (0.5")
Length	162mm
Battery	1 single sub-AAA lithium battery
Memory	1.4 million data points (Time, Pressure, Temperature) 2.8 million in option
Pressure range	10/15/20 kPsi
Temperature range	125/150/170°C (257/302/338°F)
Pressure Accuracy	+/-0.01% FS
Pressure Resolution	0.00005% FS
Temperature Resolution	1 mK at 1 Hz
Measurement period	From 128Hz to 1 data every 64sec
Deployment	DST Mandrel Completions Drilling, Wireline, Slickline tools
Interface	Plug and Play USB

APPLICATIONS

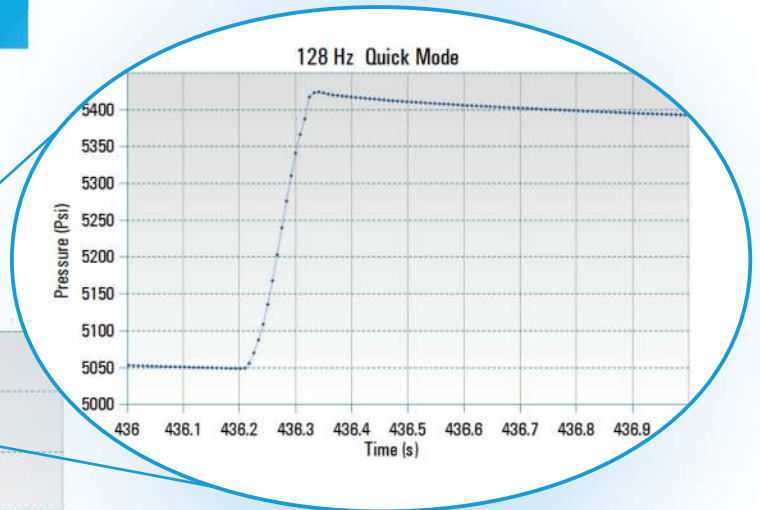
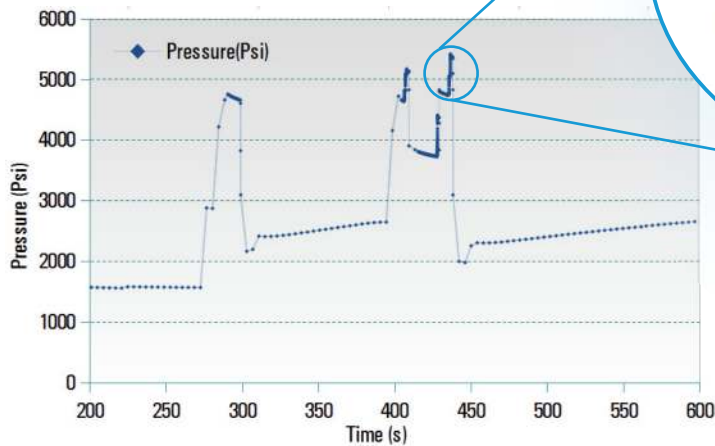
- Fracturing jobs
- Build-up analysis
- Perforation jobs
- Well monitoring
- Flow assurance
- Gradient logging
- Reservoir evaluation
- Water injection monitoring

HIGH ACCURACY - HIGH RESOLUTION MEMS MICRO-RECORDER FOR PRESSURE AND TEMPERATURE



RECORDING MODES

Fracture formation monitoring is made easy with automatic transitions between 'quick' and 'slow' modes according to user-defined criterion. Quick mode measurement frequency can be set between 1 and 128 Hz and slow mode acquisition rate between 1 and 64 seconds.

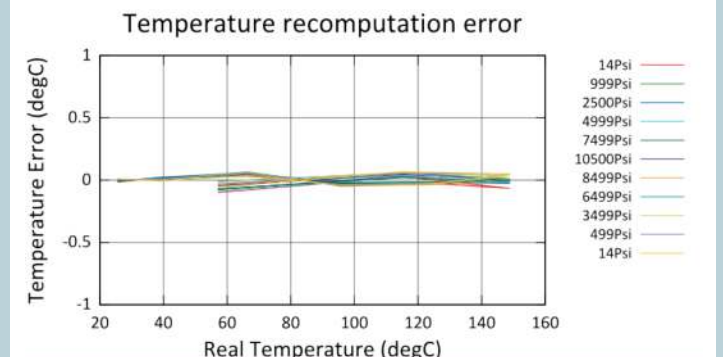
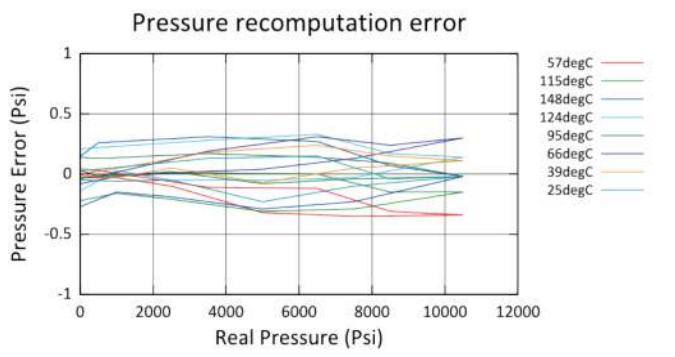


The transition back to 'slow mode' is triggered according to user-defined criterion :

- Low pressure variation rate
- Absolute pressure threshold
- Fixed elapsed time

2a Data from a frac job with build-ups. 'Quick mode' threshold set at 3000 Psi.

METROLOGY



High Accuracy, High Resolution measurement with **fast settling time** means **outstanding derivative analysis data**. Any Pressure Transient Analysis directly benefits from this higher data quality, to give you an even finer understanding of your reservoir.

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www.openfield-technology.com

13 rue de Limoges - 78000 Versailles - France

Tel: +33 (9) 8242 8309 Fax: +33 (9) 8243 8309

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