Memory Gauges

Electronic Memory Gauges (EMR) are utilised to sample and record downhole pressures and temperatures, with data being stored, ready for downloading to acquisition equipment when the tool resurfaces. Memory gauges are normally used to measure bottomhole pressures and temperatures in response to various production rates in tests to assess well productivity and reservoir performance.

Applications

- Drill stem testing (DST)/production tests
- Flowing and pressure build up surveys
- Gradient surveys
- Long-term surveys
- Records downhole pressures and temperatures
- Perforation monitoring

Features

- Electronic memory gauge consists of a field replaceable modular electronic memory section. This includes an optional ceramic hybrid module for increased reliability for long durations at high temperatures.
- Our gauges cover a complete range of applications including: High Pressure High Temperature (HPHT)

Benefits

- Digital quartz transducers for accuracy and resolution
- Large memory capacity and fast sample rates
- Compact design
- Versatile programming
- Rapid data upload
- On-board diagnostics
- Provides significant cost saving in well testing and increased production optimisation
- Enables high-quality data for your entire test duration
- Real-time data and knowledge of the reservoir

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Technical specifications	
Pressure sensor	Piezo resistive or Quartz
Pressure range	0-10,000 psi to 0-25,000 psi
Accuracy	±2 psi to ±7.5 psi
Resolution	0.005 psi to 0.05 psi
Stability (per month)	0.0625 psi to 0.375 psi
Temperature sensor	PRT or Quartz crystal
Temperature range	290 °F to 410°F
Accuracy	±0.15 °F to ±1 °F
Resolution	0.001 °F to 0.01 °F
Repeatability	0.01 °F to 0.35 °F
Memory type	Non-volatile flash
Memory capacity	500,000 data sets to 4,200,000 data sets
Fastest sample rate	0.01 sec to 2 sec
Programmable intervals	15 to 32
Length	6 in to 60 in
OD	0.75 in to 1.5 in
Weight	1 lbs to 15 lbs

Our gauges cover a complete range of applications. Expro's downhole memory gauges have established a global reputation for reliability, providing the industry with bottom hole pressure and temperature data of the highest integrity.

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