

Badger TRI Tool

Fast

Accurate

Rugged

Temperature recorders were one of the first downhole sensors in the industry. It is still in use today since it can give you information about a well that no other sensor can. The trouble is you need to have a fast response temperature to really use the data.

On typical downhole recorders the temperature response is very slow since the temperature sensor is located as near to the pressure sensor as possible for the pressure to be accurately calculated. To speed things up a wet or external temperature sensor is needed to detect fast changing temperature transients.

External temperature sensors have been standard on most logging tools for years, but as you well know logging tools are very expensive. So Cal-Scan has developed a new tool that bring the benefits of measuring wet temperatures on inexpensive downhole memory recorders while at the same time still have accurate pressures.

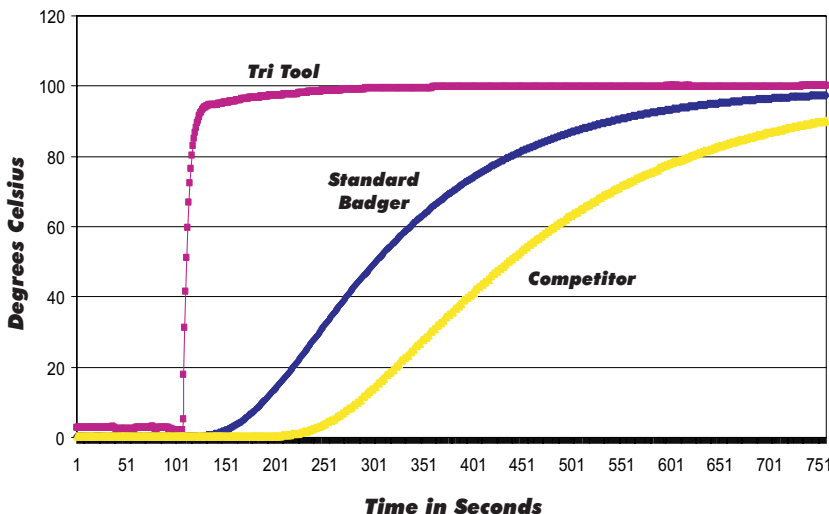
The innovative Badger Tri Tool has both a external temperature sensor that can record extremely fast temperature transients and one internal temperature sensor for accurate pressure. All this and you can still can get a one second sample rate !



Specifications

Pressure Accuracy	0.024% Full Scale
Pressure Resolution	0.0003% Full Scale
Pressure Drift	< 3 psi/year
Pressure Ranges	up to 15,000 PSI
Temperature Accuracy	0.15% Full Scale
Temperature Resolution	0.002% Full Scale
Temperature Response	17 seconds (90% of 0° C to 100 °C)
Operating Temperature	up to 150°C
Operating Voltage	3.3 VDC
Typical (battery life)	~ 1 AA Lithium Cell / year
Number of Data Points	696,000 Sets (Expandable)
Minimum Sample Rate	1 sample / 0.5 seconds
Housing Material	718 INCONEL™ Standard
Housing Size	1.25" Diameter 22" Long
Transducer Type	Silicon Crystal
Communications	RS232/USB Via Interface Box
Surface Readout	Gopher SRO Compatible
Software	Windows 98/ME/2000/NT/XP

Temperature Response



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