

Description

The **LSC-Sentergy** Piezo-resistive Pressure/Temperature Tool is a high accuracy, high reliability pressure gauge capable of measuring pressure and temperature at up to 32 samples/sec. The gauge incorporates a custom Piezo-resistive pressure transducer providing accuracy and stability at a cost-effective price.

The battery can be either a single 'AA' for short duration surveys or a single 'CC' cell for long duration surveys. Sample rate is programmable from 32 samples/sec up to 1 sample/hr and sample rate changes can be triggered on pressure or temperature for complete flexibility.

Applications

Well Stimulation, Perforating, Fracturing, Reservoir Monitoring, Well Testing, BHP and gradient surveys.

Features

Large (up to 8MB) Non-Volatile Flash memory.	Ensures no data loss in the event of battery disconnection, depletion or premature failure. Records > 1 Million datasets (P/T/Time)
3V electronics with single battery operation	Reduces power consumption and battery cost.
Visible confidence tester	Allows operator to verify tool is operational.
Simple to use software (Windows XP/Vista compatible) with USB connection to tool.	No external interfaces required allowing fast USB upload/download.

Specification

Max Operating Temperature Options	150°C (347°F), 175°C (347°F) or 200°C (392°F)
Max Operating Pressure	15,000 psi (Standard) 20K optional.
Dimensions	1.25" O.D. <1.5ft Length with 'AA' battery (Longer housings available for long duration surveys)
Power Requirements	1 x 'AA' Lithium Battery, 3.3-3.9Vdc, 1.6Ahr (>10 days' operation from a single battery @ 1sec) 1 x 'CC' Lithium Battery, 3.3-3.9Vdc, 13Ahr (>150 days' operation from a single battery @ 10sec)
Memory Capacity	8MB for up to 1.4 million data sets >2 days (P/T@8 sample/sec) >16 days (P/T@1 sample/sec)
Accuracy:	Pressure <+/-0.05% (150°C), 0.1% (175°C), 0.25% (200°C) Temperature <+/-0.5°C (150°C/175°C), +/-1°C (200°C)
Drift	0.05% FS per 6 months (recalibrate yearly)
Pressure Resolution	<0.0001% FS <0.015 psi at 15,000 psi and 1 sample/sec
Temperature Resolution	<0.01°C at 1 sample/sec
Housing	NACE MR-01-75 Compatible or 17-4 SS
Top/Bottom Connections	15/16" x 10UN (5/8" Sucker Rod)

Accessories

Peli Carry Case containing Tool, USB interface, Software and Operating Manuals.