Technical Specification Sheet

IntelleX™ Ultra-Fast Gauge - 1 & $1^{2}/_{7}$ In.

The IntelleX™ Ultra-Fast Gauge is a battery powered instrument designed to record pressure, temperature and acceleration data at extremely high sampling rates in order to capture pressure transient events typical of downhole perforating operations.

Ratings & Dimensions

	SEN-0010-0058	SEN-0010-0122	SEN-0010-0120
Max temperature	347°F (175°C)		
Max pressure	15,000 psi (103.0 mPa)	20,000 psi (137.9 mPa)	25,000 psi (172.0 mPa)
Outer diameter	1.0 in (25.4 mm)		1.29 in (32.7 mm)
Length	21.0 in (533.0 mm)		21.6 in (548.6 mm)
Materials	Corrosion resistant materials used throughout		
Connection	3/4 in UNF (1/2 in Sucker Rod)		

Sampling

Slow	All Channels - 8 samples/sec to 30 min/sample
Intermediate	10 samples/sec to 1,250 samples/sec
Ultra-Fast	Pressure - 40,000 samples/sec Temperature & Acceleration - 2,500 samples/sec
Acquisition mode	Memory
Memory Capacity	8 MB standard (1.4 million data points)

Pressure Measurements

Stability	± 0.3% FS per 3 months
Accuracy	± 0.15% < 175°C
Resolution	0.01 psi @ 10,000 & 1 sample/sec 0.15 psi @ 10,000 psi & 40,000 samples/sec

Temperature Measurements

Stability	175°C for 500 hours
Accuracy	± 0.5°C
Resolution	0.01°C @ 150°C, 1 sps or 0.15°C @ 150°C, 2,500 sps

Acceleration Measurements

Accuracy	± 250g
Resolution	< 0.2g

Electrical Specification

Power	2 X 'AA' Lithium Batteries, 1.6 Ahr, 6-8 Vdc 150C & 180C (+ optional 200C battery available, 1.1 Ahr)
Battery Life	Up to 20 days @ 1 sample/sec Up to 2 days @ 40,000 samples/sec

Gauge Carrier Options

SEN-0010-0036	Single Gauge Carrier $1^{11}/_{16}$" Stub Acme Pin up
SEN-0010-0025	Dual Gauge Carrier 2 $^{3}/_{8}$" Acme Pin up
SEN-0010-0118	Dual Gauge Carrier 2 $^{3}/_{8}$" EUE Box up

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