Technical Specification Sheet

IntelleX™ HPHT Quartz Gauge - 1¼ & 1⅜ in.

The Intellex™ HPHT Quartz Memory Gauge is a slickline, e-line, or coiled tubing conveyed PT Gauge, available in various ODs and pressure ratings for a range of applications. Memory capacity is 8 MB and up to 1.4 Million data sets for more than 400 days of continuous recording at 2 samples/min.

Ratings & Dimensions

Part number	SEN-0010-0356	SEN-0010-0177	SEN-0010-0166
Max temperature	350°F (177°C)		
Max pressure	20,000 psi (137.9 MPa)	25,000 psi (172.4 MPa)	30,000 psi (206 MPa)
Outer diameter	1.25 in (32.0 mm)		1.375 in (34.9 mm)
Length	2.44 ft (0.74 m)		
Weight	15 lb (6.8 kg)		15.6 lb (7.07 kg)
Measure point	2.7 in (68.58 mm) from bottom of tool		
Materials	Inconel 25k psi & MP35N 30k psi rated (NACE MR-10-75 Compatible)		
Connections	Top/Bottom 15/16in x 10UN (5/8in Sucker Rod)		

Measurements

Memory Capacity	8 MB for up to 1.4 Million data sets >2 days (P/T @ 8 samples/sec) >13 days (P/T @1 sample/sec) >400 days (P/T @ 2 samples/min)			
Acquisition mode	Memory			
Max Operating Life	200 hrs@ 200°C(392°F)	1000 hrs@ 175°C(347°F)	2000 hrs@ 165°C(329°F)	4000 hrs@ 150°C(302°F)
Primary Output	Pressure			
Secondary Output	Temperature			

Pressure Measurements

Range	15,000 psi (103.4 MPa)
Accuracy	< ± 0.015°C
Resolution	< 0.008% FS
Drift	0.02% FS per year

Electrical Specifications

Voltage	3 – 9 Vdc 5 Vdc power supplied via USB (programming & data upload) 7.3 Vdc power supplied via 2 x “C” cell battery pack
Current Consumption	< 2 mA (standby) < 6 mA (sampling)
Power Requirements	2 X ‘C’ Lithium Batter 7.34V (> 10 days operation @ 1 sample/sec) 6.5Ah

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