

Quantum™ 150C Piezo Memory Gauge



The Quantum™ 150C Piezo memory gauge is a slickline, e-line, or coiled tubing conveyed downhole memory gauge with significantly enhanced capabilities. The memory gauge is available in various ODs and pressure ratings depending on the application. An external fast response RTD temperature sensor is a feature on the 1.25" gauge. The memory has 4X redundancy capability and up to 5.3 million data sets. With the addition of the SRO panel, the gauge can have e-line compatibility.

Ratings & Dimensions

Max temperature	302°F (150°C)			
Pressure Range	5kpsi; 10kpsi; 16kpsi; 20kpsi			
Outer diameter	0.75 in (19.0 mm)	1.0 in (25.4 mm)	1.25 in (31.75 mm)	1.5 in (38.1 mm)
Length	18.0 in (0.46 m); 26.0 in (0.66 m); 29.0 in (0.74 m)			
Weight	4.0 lbs (1.36 kgs)			
Materials	Inconel825/Hastelloy (NACE MRO 175) & Nitronic 50SS			

Hardware Characteristics

Transducer type	Pressure - Piezo resistive / Temperature - RTD
Acquisition mode	SRO or Memory

Pressure Measurements

Pressure Range	5kpsi; 10kpsi; 16kpsi; 20kpsi
Sampling Rate	1 sps - programmable
Resolution	0.0003% F.S.
Accuracy	0.024% FS / 0.05% F.S.
Drift	<3 psi / year

Temperature Measurements

Max temperature	302°F (150°C)
Resolution	0.0018°F (0.001°C)
Accuracy	± 0.449°F (± 0.25°C)
Response Time	1.5 sec / 10°C

Electrical Specification

Consumption	3.6V
Max data	5,300,000 sets
Interface	USB
Power Source	AA or CC Battery / E-line