

Quantum™ 177C Quartz Memory Gauge



The Quantum™ 177C Quartz 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 8 million data sets. With the addition of the SRO panel, the gauge can have e-line compatibility.

Ratings & Dimensions

Max temperature	350°F (177°C)			
Pressure Range	5kpsi; 10kpsi; 16kpsi; 20kpsi			
Outer diameter	0.75 in (19.05 mm)	1.0 in (25.4 mm)	1.25 in (31.75 mm)	1.5 in (38.1 mm)
Length	28.0 in (0.71 m)	37.0 in (0.94 m)	38.0 in (0.97 m)	40.0 in (1.0 m)
Weight	4.0 lbs (1.36 kgs)			
Materials	Inconel 825/Hastelloy (NACE MRO 175)			

Hardware Characteristics

Transducer type	Digital Quartz
Acquisition mode	SRO or Memory

Pressure Measurements

Pressure Range	5,000 psi; 10,000 psi; 16,000 psi; 20,000 psi
Sampling Rate	1 sps - programmable
Resolution	0.008% psi/sec
Accuracy	0.015% FS (5k & 10K) / 0.02% FS (16k & 20k)

Temperature Measurements

Max temperature	350°F (177°C)
Resolution	0.0018°F (0.001°C)
Accuracy	± 0.449°F (± 0.25°C)

Electrical Specification

Consumption	3.6V
Max data	8,000,000 sets (memory has 4X redundancy capability)
Interface	USB URod
Power source	AA or CC Battery / E-line