



Quartz CTQ

Canada Tech has improved our Canada Tech Quartz (CTQ) II Tool to provide you with the same highly accurate pressure and temperature data in a new housing.

The integration of a custom built sensor with our industry leading electronics has transpired into an extremely durable 3.6 Volt Quartz tool. The CTQ II utilizes a 2C Cell lithium Battery resulting in increased battery efficiency. With engineered metal-to-metal seals, our Quartz tool is designed to withstand the harshest downhole environments. The CTQ II is low in maintenance and is cost effective because of its advanced construction and smaller size.

The Canada Tech Quartz II delivers data with accuracy, resolution and long term stability that is unmatched by competitors.

General Specifications		Data Acquisition Specifications	
Approximate Length	25.5"	Memory Capacity	500,000 records
Diameter	1 ¼"	Record Contents	Time / Pressure / Temperature
Thread	3/4 - 16 UNF	Sample Interval	1 second - 1 hour
Circuit	Hybrid	Program Segments	15
Housing Material	Inconel 718	Communications	Standard PC USB or RS 232 Port
Diaphragm Material	Inconel Bellows	Software	Windows compatible
O-Rings	Viton 90 Durometer		
Primary Seals	Engineered Metal to Metal		

Pressure Specifications				
Sensor	Thickness Shear Mode Quartz Resonator			
Standard Ranges ¹	0 - 5,000 psi	0 - 10,000 psi	0 - 16,000 psi	0 - 20,000 psi
Available Calibration Temp. Ranges	25°C - 150°C	25°C - 150°C	25°C - 150°C, 177°C	25°C - 150°C, 177°C
Accuracy ² (% FS)	0.02	0.015	0.02	0.02
Typical Accuracy (% FS)	0.015	0.012	0.015	0.015
Achievable Resolution ³ (psi/sec)	< 0.006	< 0.006	< 0.008	< 0.008
Repeatability (% FS)	< 0.01	< 0.01	< 0.01	< 0.01
Nominal Sensitivity (Hz/psi)	2.8	2.8	2.5	2.5
Drift at 14 psi and 25°C (% FS/year)	Negligible	Negligible	Negligible	Negligible
Drift at Max. Pressure & Temperature (% FS/year)	0.02	0.02	0.02	0.02

Temperature Specifications			Power Specifications	
Standard Ranges	25°C - 150°C	25°C - 177°C	Source	2C Cell Lithium Battery
Accuracy ² (°C)	0.5	0.5	Voltage	3.6 VDC
Typical Accuracy (°C)	0.15	0.15	Current	2.8 µAh per sample
Achievable Resolution ³ (°C/sec)	< 0.005	< 0.005	Battery Life	Temperature Dependent
Repeatability (°C)	< 0.01	< 0.01		
Average Sensitivity (Hz/°C)	180	180		
Frequency Output Range (kHz)	10 - 70	10 - 70		
Drift at 177°C (°C/year)	< 0.1	< 0.1		