Memory Tools



Canada Tech Quartz (CTQ) II

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 QuartzDyne® hybrid digital transducer with our industry leading electronics has transpired into an extremely durable 3.6 Volt Quartz tool. The CTQ II utilizes a 2CC Cell Lithium Battery resulting in increased battery efficiency.

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.

The 200°C version offers a disposable electronic controller module.

Features
30.5" in length
Low Maintenance
3.6 Volt Electronics
0.02% Full Scale Accuracy Level
Low Cost

Applications	
Interference Testing	
Production Testing	
Well Testing	
Well Stimulations	

Acc	essories	Part No.
	Shipping case assembly	101980
	Redress Kit	100208
	USB Int. Box	101821
l e	USB Int. Cable	101059
Interface	Serial Int. Box**	101848
<u>=</u>	Serial Int. Cable**	102139
	Serial Int. Power Supply**	102141
2	Battery Tester	102142
Battery	2CC Cell Lithium	Varies depending on temperature rating

^{**} only to be use with 150°C electronics

Please note that specifications and drawings are subject to change without notification

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General Specifications		
Approximate Length	30.5"	
Diameter	1 1/4"	
Thread	3/4 - 16 UNF	
Circuit	Hybrid	
Housing Material	Inconel 718	
Diaphragm Material	Inconel Bellows	
O-Rings	Viton 90 Durometer, Aflas or Chemraz	

Data Acquisition Specifications		
Memory Capacity	500,000 records	
Record Contents	Time / Pressure / Temperature	
Sample Interval	1 second - 1 hour	
Program Segments	15	
Communications	Standard PC USB or RS 232 Port	
Software	Windows compatible	

Pressure Specifications			
Sensor	Thickness Shear Mode Quartz Resonator		
Standard Ranges ¹	0 - 10,000 psi	0 - 16,000 psi	0 - 20,000 psi
Available Calibration Temp. Ranges	25°C - 150°C	25°C - 150°C, 177°C, 200°C	25°C - 150°C, 177°C, 200°C
Accuracy ² (% FS)	0.015	0.02	0.02
Typical Accuracy (% FS)	0.012	0.015	0.015
Achievable Resolution ³ (psi/sec)	< 0.006	< 0.008	< 0.008
Repeatability (% FS)	< 0.01	< 0.01	< 0.01
Nominal Sensitivity (Hz/psi)	2.8	2.5	2.5
Drift at 14 psi and 25°C (% FS/year)	Negligible	Negligible	Negligible
Drift at Max. Pressure & Temperature (% FS/year)	0.02	0.02	0.02

Temperature Specifications			
Standard Ranges	25°C - 150°C	25°C - 177°C, 200°C	
Accuracy ² (°C)	0.5	0.5	
Typical Accuracy (°C)	0.15	0.15	
Achievable Resolution ³ (°C/sec)	< 0.005	< 0.005	
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	

Power Specifications		
Source	2CC Cell Lithium Battery	
Voltage	3.6 VDC	
Current	2.8 µAh per sample	
Battery Life	Temperature Dependent	

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¹ Units calibrated with bellows meet performance specifications from 200 psi to full scale. Operating range is from 0 to FS.

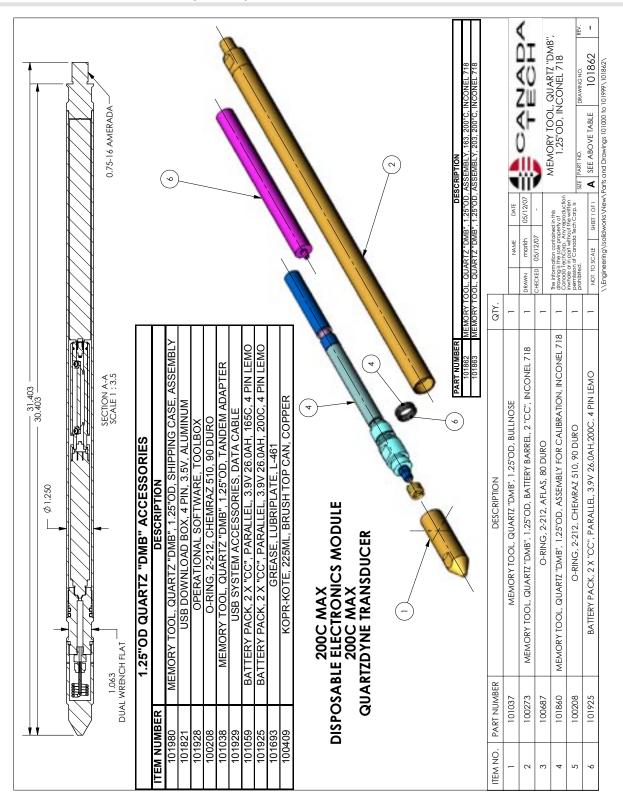
² Accuracy is the combined effects of repeatability, hysteresis, and corrected linearity over the calibrated temperature range

³ Achievable Resolution assumes a 7.2 MHz reference is used as the clock in a period-based counter

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