1.25” Quartz Memory Tool

Features

- Welded circuit enclosure
- 5,500,000 data sets
- Diaphragm protected quartz transducer
- 100% Hybrid MCM electronics.
- Four Application specific integrated circuits (ASICs) that increase reliability, minimize power consumption and increase run time at temperature.
- Optional side port connector for easy access

Benefits

- When compared with the competition Quartzdyne’s memory tool consumes five times less power and enables twice the run time than other Quartz tools on the market.
- Enhanced Software interface for easy programming and quick, reliable data download
- One supplier for service and support resulting in faster repair and calibration turnaround.
- Quartzdyne Reliability

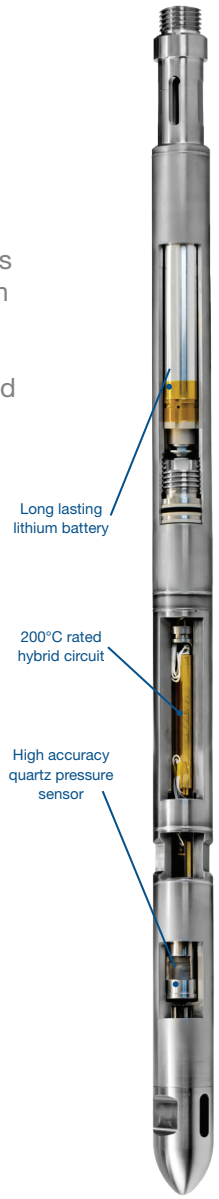
Applications

Reservoir evaluation and well testing

- Drill Stem Tests
- Slickline operations
- Production optimization
- Interference tests
- Long duration tests

Production monitoring

- Interference tests
- Long duration tests
- High pressure and high temperature surveys
- Build-up surveys
- High pressure stimulation operations



Mechanical	
Material	Inconel 718 and MP35N as per NACE MR0175 for Sour Service
Max OD, in [mm]	1.25 [31.75]
Length, in [mm]	24.3 [553]
Weight	5.43 lbs
Vibration	15 Grms, Random (10-2000Hz)
Shock	120 x bi-directional 40 g, 11ms half-sine
Drop	75 x 500 G, 2ms half-sine
Tool coupling	15/16” x 10 (standard 5/8” sucker rod coupling) 3/4” -16 UNF Amerada couplings

Operation	
Scanning rate	0.1s to 18 hours
Memory Capacity	> 5,500,000 data sets
Power source	Lithium battery pack (150°C, 165°C, 200°C)
Operating voltage, V	3.3v to 7.8v 210+ days of operation with a standard battery
Communication	USB and Windows Compatible (7, 8, 8.1, 10)

Metrology					
Memory Gauge Option	10,000 psi (69 MPa)	16,000 psi (110 MPa)	20,000 psi (138 MPa)	25,000 psi (172 MPa)	30,000 psi (207 MPa)
Pressure Range (Calibrated)	ATM to 10,000 psi (1 - 69 MPa)	ATM to 16,000 psi (1- 110 MPa)	ATM to 20,000 psi (1- 138 MPa)	ATM to 25,000 psi (1 - 172 MPa)	ATM to 30,000 psi (1 - 207 MPa)
Pressure Accuracy	0.015%, 1.5 psi at full scale	0.02%, 3.2 psi at full scale	0.02%, 4.0 psi at full scale	0.02%, 5.0 psi at full scale	0.025%, 7.0 psi at full scale
Pressure Resolution	< 0.006 psi (0.04 kPa)	< 0.008 psi (0.06 kPa)	< 0.008 psi (0.06 kPa)	< 0.010 psi (0.07 kPa)	< 0.010 psi (0.07 kPa)
Drift at Max pressure and temperature	0.02% full scale, 2.0 psi/year	0.02% full scale, 3.2 psi/year	0.02% full scale, 4.0 psi/year	0.02% full scale, 5.0 psi/year	0.02% full scale, 6.0 psi/year
Temperature Range (Calibrated)	25°C to 150°C (77°C to 302°F)	25°C to 200°C (77°C to 392°F)			
Temperature Accuracy	0.5°C				
Temperature Resolution	< 0.005°C				
Drift at 177°C	< 0.1°C				

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