iQuartz5

Slim Quartz Crystal Downhole Pressure and Temperature Memory Gauge

Smart battery pack

Inconel housing for electronic & battery

Communication port protector for sour applications

Rugged Quartz Sensor

View of the external communication port

// ENHANCED ELECTRONIC PERFORMANCES

- Low Maintenance gauge operated by anyone in less than 10 mins.
- Locked battery avoids disconnection in operation.
- Metal-to-metal seal for better protection of the electronic board.

// INNOVATIVE BREAKTHROUGH / BENEFITS

- External communication port reduces maintenance cost and time.
- Smart battery system displays the remaining power of your cells.
- High-temperature electronic board with 4 times redundant memories.

// APPLICATIONS

- Extra Slim gauge for DST, coil tubing, slickline and slim-hole operations.
- For very accurate reservoir monitoring, build-up and pulse / interference tests.

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iQuartz5

Slim Quartz Crystal Downhole Pressure and Temperature Memory Gauge

View of the Communication port protector

METROLOGY

Gauge Name	iQuartz5	iQuartz5-HT	iQuartz5-XHT
Pressure			
Range	From atm. pressure to 10kpsi up to 20kpsi (Atm. to 700 to 1400 bar)		
Accuracy	± 0.02% FS		
Resolution	<0.01 psi (<0.008 bar)		
Drift	<0.02% full scale per year		
Temperature			
Operating Range*	0 to 300°F (-20 to 150°C)	0 to 350°F (-20 to 177°C)	0 to 392°F (-20 to 200°C)
Accuracy	± 0.3°F (± 0.15°C)		
Resolution	<0.01°F (<0.005°C)		
Battery type			
Temperature < 150°C 150°C < Temperature < 200°C	Z15E, LZ15E, 2LZ15	Z15E, LZ15E, 2LZ15 Z20, 2Z20	Z15E, LZ15E, 2LZ15 Z20, 2Z20

*Calibrated range starts at ambiant temperature (20°C)
Calibration down to -20°C available on demand

Mechanics	
Material	Inconel suitable for sour services (H2S, CO2, Acid)
OD	¾" (19 mm)
Length	18" up to 25" (45 to 64 cm) for Insert 22" up to 29" (55 to 73 cm) for Slickline Version
Weight	1 lbs (500 g)
Threads	5/8" 11 UNC (pin up x box down) or non threaded housing (Insert)
Bottom nose	¼" NPT (box)

Computer & Software (Powered by Metrowin)	
Programming Modes	Conventional, Advanced
Parameters	1/100s-18h Scanning Rate, Time delay, Pressure start (Trigger, Threshold)
Windows	Compatible from Windows 2000 to Windows 10
Connector	RS232/ USB
Memory capacity	2 100 000 data points of pressure and/or temp.

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