



# COMBINED WATER HOLDUP TOOL & DENSITY TOOL (QCD)

Combined Water Holdup & Tuning Fork Density tool (QCD) offers capacitance (water holdup) and tuning fork density sensors in one module. This compact tool is fully compatible with GOWELL's Pegasus series tools and the PegasusStar system. A compact PL string can be formed by combining this QCD with Pegasus modules PTF, FBM and GTC.



## FEATURES

- Compact design by combining water holdup and fluid density
- Density unaffected by highly radioactive scale and well deviation
- No radioactive source – ease of logistics
- Accurate, repeatable density measurement
- Compatible with all Pegasus series tools
- Compliant to **NACE MR0175/ISO 15156-2015** for sour service version

## APPLICATIONS

- Water Hold-Up measures the dielectric constant of the surrounding borehole fluid to determine the water holdup
- The QCD tool is a non-radioactive method of determining liquid and gas density unaffected by well deviation

## SPECIFICATIONS

QCD43C-A		QCD43J-A
P/N 1.01.07.100518321		P/N 1.01.07.100517061
STANDARD TOOL		SOUR SERVICE TOOL
<b>GENERAL SPECS</b>		
Maximum Operating Pressure	15,000PSI (103MPa)	15,000PSI (103MPa)
Maximum Operating Temperature	350°F (177°C)	350°F (177°C)
Instrument Diameter	1-11/16 in. (43 mm)	1-11/16 in. (43 mm)
Length	35.79 in. (909 mm)	37.76 in. (959 mm)
Weight	12.3 lbs (5.6 kg)	13.2 lbs (6 kg)
<b>Density</b>		
Measuring Range	0~1.25g/cc	
Measuring Resolution	0.01g/cc	
Measuring Accuracy	0.03g/cc	
Measuring Repeatability	2%	
<b>Water holdup</b>		
Measuring Range	0~50%	
Measuring Resolution	1%	
Measuring Accuracy	2%	