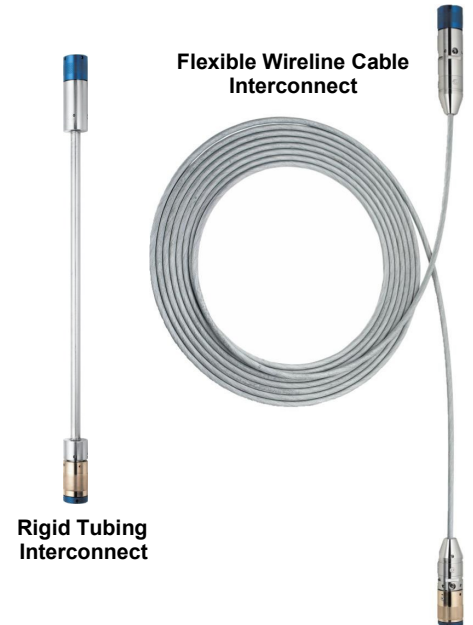
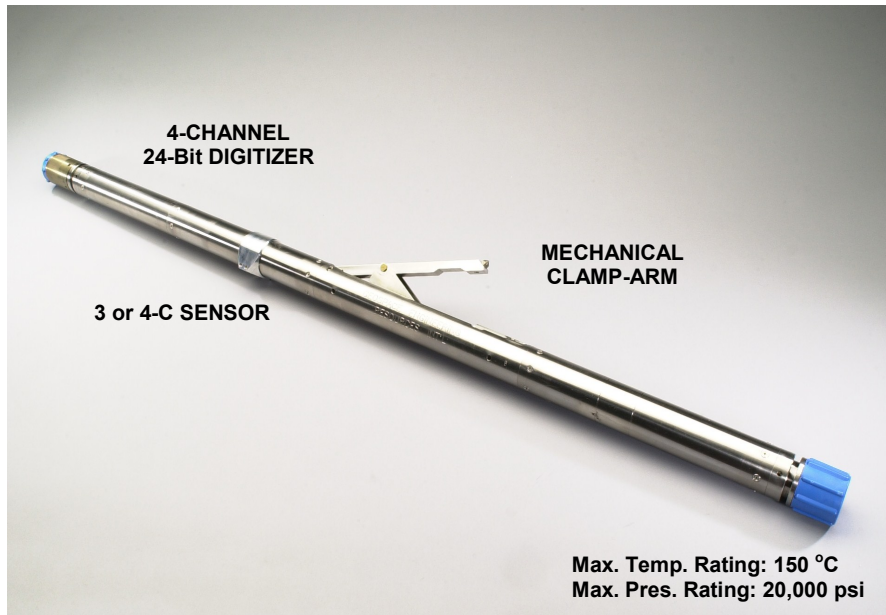


DDS-250 Downhole Shuttle

Mechanical-clamped Digital Downhole Shuttle



DDS-250 Features:

- 24-Bit x 4-Channel Digitizer in each Shuttle
- Ultra Low Noise Digitizer enables recording of ultra low amplitude microseismic events
- Slim-hole Shuttle 2.50 inch OD (63 mm)
- 3C or 4C Sensor Packages available: 3C—Tri-axis Orthogonal Geophone and 4C— Tri-axis Orthogonal Geophone and Hydrophone
- Dual-Element OMNI-2400 High-output Geophone Sensor
- DEEPENDER 5000 Hydrophone Module for 4-component Recording
- Solid Machined Titanium Shuttle Body Minimizes Mechanical Resonance for High Resolution, High Frequency Recording
- Selectable Open-Close Motor Control for each Shuttle with special “POWER BOOST” operator control
- Armored Wireline or Rigid Interconnects available with high-pressure multi-conductor booted conductors
- Flexible or Rigid Interconnects may be connected “back-to-back” to form longer intervals
- Maximum Distance between DDS-250 is 50 Meters
- Maximum Temperature Rating —150 °C
- Maximum Pressure Rating — 20,000 psi
- Up to THIRTY-TWO (32) 4-Component Levels per well deployment

DDS-250 Downhole Shuttle

Mechanical-clamped Digital Downhole Shuttle

SPECIFICATIONS

Outside Diameter	2.50 in	(63 mm)	
Length	62 in	(157 cm)	
Tool Weight	40 lbs	(18 kg)	
Anchoring System	Electromechanical in each shuttle		
Anchoring-to-Weight Ratio	10:1 @ 45° angle		
Anchoring Motor Power	24 VDC per shuttle constant 0.5 amp		
Time-to-Anchor	~ 30 seconds per shuttle @ 6"		
Tool Anchoring Range	4 –12 inch (102–305 mm)		Extra long arm available upon request
Points of Contract	3 points plus Anchor Arm		
First Mechanical Tool Resonance	> 650 hertz		
Sensor Package	3-C w/ Dual-element OMNI-2400		4-C w/ Dual-element OMNI-2400 and DEEPENDER 5000 Hydrophone
Interconnect Options	Rigid Tubing (Stainless steel)		Flexible Armored Wireline Cable
	Standard Lengths	3, 6, 9 meters	9, 12, 15, 20 meters
		Custom lengths up to 50 meters available upon request	
Maximum Temperature Rating	150 °C		
Maximum Pressure Rating	20,000 psi		

DDS-250 4-CH x 24-Bit Digitizer SPECIFICATIONS

Sampling Rates	1/4, 1/2 , 1, 2, and 4 ms			
Pre-amplifier Gains	<u>0 dB</u>	<u>8 dB</u>	<u>19 dB</u>	<u>31 dB</u>
Equivalent Input Noise@ 2 ms	1.590 µvolts rms	0.674 µvolts rms	0.264 µvolts rms	0.176 µvolts rms
Maximum Input Signal	1.590 vrms	0.635 vrms	0.187 vrms	0.045 vrms
Gain Accuracy	< 1%			
Frequency Response	3 to 1.6 KHz			
Anti-alias filter	80% Nyquist			
Instantaneous Dynamic Range	120 dB			
Cross-feed Isolation	>100 dB			
THD	0.0018%			
System Timing Accuracy	Better Than 1 PPM			



DDS-250 4-Component Sensor

Note: All specifications subject to change at sole discretion of OYO Geospace



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