



**SPECIALISTS IN DIRECTIONAL, HORIZONTAL,  
AND MULTI LATERAL SERVICES**



16623 Aldine Westfield rd., Houston Tx. 77032 Off 281-395-5202 Sales 281-414-8100 Ship 888-841-3348

**SSES Toteq MWD/Gamma, Tool Tracker, instant inc/azm, RT shock/Vib.**

**SSES MWD/Gamma systems are manufactured and serviced by Frontier MWD with reliable Tolteq components and Frontier Technology. Made to last!!**

**TOLTEQ INTELLIGENT DIRECTIONAL MODULE (IDM) ADVANCED FEATURES**

- Operational time and environment history recorded in internal memory
- On-board rotation detection
- Shock, vibration & RPM pulsed to surface in real-time
- Addition internal logging
- Internal current usage logged to memory
- Smart power management-efficient battery switching & logging of voltage & current
- Fluxgate magnetometers
- Quartz-flexure accelerometer
- Legacy compatible
- Enhanced circuit protection
- Calibration coefficients included directly into module memory
- Quality wiring inside with strain relief connectors and high temperature mesh covering for wires
- Shorter, more rugged design



**WIRELESS TOLTEQ SURFACE SYSTEMS ADVANCED FEATURES**

- Automated filtering and decoding
- Wireless link from rig floor to shack
- Automated logging
- Well archiving
- User friendly WITS interface
- Complete Surface System, no additional hardware or software needed
- Water-tight, durable Pelican case
- Rugged marine connections





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**INTELLEAGENT PULSAR GAMMA MODULE (iPGM) ADVANCED FEATURES**

- Gets Gamma 5.5 feet closer to the bit
- Less time to assemble
- More logging features
- Enhanced circuit protection features
- Add or remove Gamma as needed
- No capacitor bank
- Eliminate noise in Downhole Electrical Tool System
- Incredible reliability, even in the toughest LCM environments
- Interfaces with Legacy MWD system
- Internal current consumption logged to memory
- Quality Toteq wiring inside with strain relief connectors and high temp mesh covering for wires
- Simplified Single Coil Design



**MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS**

	Miniumum	Maximum	Units
Operating Temperature	0	175	°C
	32	347	°F
Survival Temperature	-40	185	°C
	-40	365	°F
Vibration, Random	20	gRMS, 15-500 Hz	
Shock	1000	g, 0.5 mSec, half-sine	

**MWD'S ADVANCED FEATURES**

Operational time and environment history recorded in internal memory, On-board rotation detection, Shock, vibration & RPM pulsed to surface in real-time, Addition internal logging, Internal current usage logged to memory, Smart power management-efficient battery switching and logging of voltage and current Fluxgate magnetometers, Quartz-flexure accelerometer, Legacy compatible, Enhanced circuit protection, Calibration coefficients included directly into module memory, Quality wiring inside with strain relief connectors and high temperature mesh covering for wires, Shorter, more rugged design