

Another Powerful MWD Advancement from Tolteq

53.7"

Tolteq's iDM (Intelligent Directional Module) raises the bar with legacy compatibility and advanced features. Engineered to the highest possible standards—so you can be confident your downhole tool is always performing at its best.

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 of new rotation sequence
- Advanced internal logging*
- Internal current usage logged to memory*
- Smart power management—efficient battery switching and logging of voltage and current
- Fluxgate magnetometers
- Quartz-flexure accelerometers
- Legacy compatible
- Enhanced circuit protection
- Calibration coefficients included directly into module memory
- Quality Tolteq wiring inside with strain relief connectors and high temp mesh covering for wires
- Shorter, more rugged design

*Requires Tool Tracker version 2.x software to download

Electrical Specifications

- Operating Voltage Range: 10V-30V
- Current @ 28V: 100mA Max, 10mA Idle
- Sensor power management through firmware
- Power usage: 0.25W Idle, 3W Peak



Tolteq tools offer SMART software for tracking tool history and performance. Get Tolteq & get SMART.

1205 BMC Drive
Cedar Park, Texas 78613

Tel: 512.331.4241
www.tolteq.com



A Powerful & Advanced Directional Module

Tolteq's iDM (Intelligent Directional Module) incorporates the latest advancements in downhole electronics. Take advantage of advanced logging features and a shorter design.

Mechanical and Environmental Specifications

Parameter	Minimum	Maximum	Units
• Outside Diameter*		1.875	Inches
		0.047	m
• Length*		53.7	Inches
		1.364	m
• Operating temperature	32	175	°C
	0	347	°F
• Survival temperature	-40	185	°C
	-40	365	°F
• Vibration, Random		20	g RMS 10-200 Hz
• Shock		1000	g. 0.5mSec. half-sine

Instrument Accuracy Specifications

Parameter	Accuracy
Inclination:	
• Absolute	±0.1°
• Spread	±0.1°
Azimuth (Magnetic dip angle at <70°):	
@ 5° inclination: Absolute	+/-1.2°
Spread	+/-1.0°
@ 10° inclination: Absolute	+/-1.0°
Spread	+/-0.75°
@ 90° inclination: Absolute	+/-0.5°
Spread	+/-0.5°
Tool face accuracy, axial rotation, 10 through 90 inc	±1.0°
Total g field accuracy, absolute	±5.0 mG
Total H field accuracy, absolute	3.0 mguass
RPM measurement, 10-255 RPM	±0.5 % of value



Original Engineering in Measurement While Drilling Systems and Components



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