

Tolteq Intelligent Pulser Ruggedized Gamma Module (iPRGM-NXT)

The Tolteq™ intelligent pulser ruggedized gamma module (iPRGM-NXT) combines a pulser with an intelligent gamma sensor to deliver a powerful two-in-one tool that puts gamma close to the drill bit. The module is configurable to suit individual customer needs, working as a traditional pulser or in a variety of other capacities with the addition of tailored components. Constructed from high-grade materials such as aluminum and beryllium copper, the module is outfitted with electronics that drive the solenoid, communicate with the controller, and log environmental data. Extensive battery life, high-temperature reliability, and simple maintenance further drive the module's wide applicability in the field, where the data it logs is transformed into a powerful analytical device by the Tool Tracker™ system.



Features Benefits

- Acquires gamma 5.5 ft closer to the bit
- Less time to assemble
- More logging features
- Enhanced circuit protection features
- Add or remove gamma as needed
- Up to 4 bps data transmission rates under ideal conditions
- 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 Tolteq wiring inside with strain-relief connectors and high-temperature mesh covering for wires
- Simplified single-coil design
- Operational time and environment history recorded in internal memory*
- Integrated three-axis digital flow switch
- Shock and vibration monitoring and logging*
- Flow switch values and performance logging*

*Requires Tool Tracker to download

Physical Specifications

Length (w/end caps).....69 in. (1.75 m)
Diameter.....1.875 in. (47.6 mm)
Battery life.....more than 250 hours per battery

Electrical Specifications

Operating voltage range.....20 to 30 V
Current usage.....35 mA idle

Environmental Specifications

Operating temperature range.....32 to 347°F (0 to 175°C)
Survival temperature.....-40 to 365°F (-40 to 185°C)
Vibration, random.....20 g RMS, 15 to 500 Hz
Shock.....1,000 g, 0.5 mSec., half-sine