

# A Total Solution

For all of your MWD Needs

## Everything you need to be successful: Tolteq Products, Services, and Support

With the rise of unconventional resources, more and more land operators are seeking to maximize their returns while minimizing costs through a factory approach that demands even faster drilling and more accurate placement. This new environment has posed new challenges for MWD/LWD service providers, who must now face tighter drilling schedules and less tolerance for Non-Productive Time.

### How can Tolteq help?

It is in this high-pressure environment that Tolteq tools and services excel, providing you with a robust solution for all of your MWD needs, as well as the support and expertise to elevate your personnel and operations.

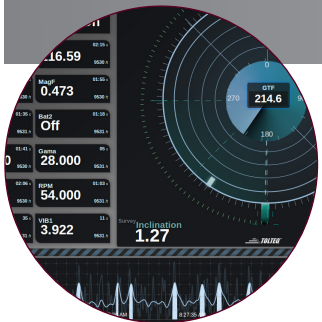
### Downhole Solutions



#### iSeries and TruCourse—the best of both worlds

Interested in backwards compatibility or future possibility? With two distinct downhole systems, **iSeries** and **TruCourse**, Tolteq offers you exactly what you need. The iSeries is a proven workhorse, with extraordinary reliability and efficiency, advanced logging, and simplified design; you could not ask for more from a system that still offers legacy compatibility. Our TruCourse system combines cutting edge design with proprietary electronics, including concentric connectors, conical snubbers, 2-line inter-tool communication, and fast pulsing.

### Rigsite Solutions



#### More and better data for improved accuracy

Want to optimize your Tolteq system? With our two surface systems, **GUIDE** or **TruCourse**, you can take advantage of your advanced downhole electronics. Both systems provides real-time shock, vibration, and RPM, an extra drilling sequence to save precious bandwidth, and automated WITS data transfers. TruCourse takes it to the next level, with multiple display options including remote access, fast pulsing, and an all-new interface viewable on any mobile device. Need to display and correlate all of your newfound data on one log? Try **TLS** (Tolteq Logging Software), the most powerful and easy-to-use logging application in the industry.

### Shop Solutions



#### Ensure your tool are downhole ready before it's too late

Ready to go downhole? First, verify tool battery and signal functionality with **SureCircuit**, test your pulser with **SurePulse**, and check your complete system's electronics with **Tolteq Universal Tester**. Completed a successful job? All Tolteq tools, including our gamma modules and TruCourse batteries, feature built-in logging capabilities—offering a storehouse of valuable information for data analysis after the job. With **Tool Tracker** you can analyze that data, identify issues and resolve those issues with confidence. You can also see live surface data including temperature, battery voltage, current consumption, shock and vibration, and flow.

Transforming downhole data into downhole intelligence

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## We have the expertise to get you up and running

To stay competitive, it's not enough to have the best MWD equipment in the world—you need a partner that will go the extra mile for you. Tolteq is just that partner, offering the services and support to help you solve any issue.



### SUPPORT

With 24/7 Product Support and an ever-expanding online knowledge base, Tolteq engineers are available to help you solve your most pressing issues.



### TRAINING

Our rigorous 3-day maintenance and reliability training will empower your team with the knowledge to perform to the highest standards.



### CALIBRATION

With our full calibration service, you can bring new life to your costly equipment and restore the original manufacturer specifications for all your sensors.



### REPAIRS

With a thorough root cause analysis and extensive testing, we will identify the issue, then restore your valuable tools to 100% reliability.

Your Need	Our Solution
High Reliability, even in HPHT environments	Designed for today's challenging downhole environment, our simplified and ruggedized designs (175°C and 20,000 PSI) are fully tested in a lab setting as well as downhole. In addition, all active units are tracked for lifetime hours, and have exhibited long tool life and thousands of hours between failures.
Reduced Non-Productive Time (NPT)	Our pulsers are highly efficient, lasting 300-400 hours per battery. Our surface systems have the ability to do a rotation re-sync to resend your survey without cycling pumps. In addition, real-time Shock, Vibration and RPM are available for pulsing.
Faster/More Efficient Data Transmission	With TruCourse, you get 3X faster data transmission rate when compared to a 1-second pulse width. With our surface systems, you get separate Sliding/Rotation sequences, with no toolfaces while rotating.
Tighter Well Spacing / Collision Avoidance (IFR applications)	We provide high resolution Raw Sensor values to 6 decimal places with an average error of 0.009° and a max of 0.020°—all available for pulsing in real-time.
On-Demand Log	Tolteq Logging Software (TLS) will correlate pulsed, WITS and downhole logged data seamlessly, allowing you to leave a report at the job site.
Data Analysis/Downhole Troubleshooting	Tool Tracker is unique in the industry, providing a look into the downhole environment with an intuitive graphical display that allows you to analyze logged data, such as shock/vibration, temperature, flow events, battery, as well as to troubleshoot issues. Auto-Analysis feature reviews all tool data, highlighting irregularities and making recommendations.
Extensive Logged Data	Every tool provides independent internal logging, even gamma and TruCourse Battery, bringing you up to 149 parameters that are logged downhole. All this data is immediately accessible through Tool Tracker data analysis software.
LWD Scalability	With our innovative Top Mount Pulser, the valuable downhole end is freed, allowing for additional LWD sensors to sit closer to the bit, including our Ruggedized Gamma Module.
Continuous Improvement for all Tools	We release regular firmware updates on a regular basis for all boards, and make improvements to hardware based on your feedback, ensuring that your Tolteq tools will not grow obsolete. Also, some new designs are available for retrofitting.

All Tolteq products come with a standard 1-year warranty on parts and labor.

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