

Add intelligent tracking,
pipeline analysis & accuracy
to every single pig run.



Intelligent EM Transmitters

SMARTER PIG TRACKING



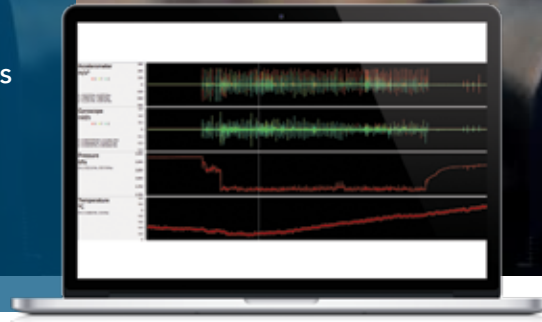
The Propipe Trident line of intelligent electromagnetic transmitters enable reliable tracking of pigs in offshore, onshore and buried pipeline applications. By collecting sensor data while pigging, valuable insights can be made about the pipeline asset and about the performance of the tools, at virtually no additional cost over more antiquated pig tracking systems.



PiggingSmarter.com

Today, more than ever, pipelines need to be safer & more efficient.

Propipe North America pipeline solutions includes world class intelligent pig tracking & communications technologies combined with simple, easy to use, powerful data collection and software visualization and analysis tools.



Intelligent EM Transmitters

By collecting sensor data while pigging, valuable insights can be made about the pipeline asset and about the performance of the tools, at virtually no additional cost over more antiquated pig tracking systems. Data can be fused with above ground marker, or signaller data points to begin to build pipeline profile maps, detect welds, debris and defects quickly and easily.

Users can download and analyze data in minutes and use this information to maintain the pipeline asset, generate pipeline maps, schedule maintenance operations or achieve better success with more expensive smart ILI tools.

All Propipe Trident transmitters are Bluetooth equipped and are easily programmed for any frequency, output power or duty cycle using the free PigView-EM smart phone App.

- ✓ Add pressure, temperature, and IMU data logging to your pigs for the same cost as classic transmitters
- ✓ Fully programmable and multi-frequency over bluetooth
- ✓ Simple integration with SMART gauge plates to find defects quickly
- ✓ Free visualization and analysis software

| | TRIDENT 540 | TRIDENT 541 | TRIDENT 542 | TRIDENT 543 |
|---|--|-------------|-----------------------|------------------------|
| Line Size ⁵ | ≤ 6" | 6" - 8" | 8" - 20" | ≥ 20" |
| Length | 6.1" | 7.5" | 11.8" | 18" |
| Diameter | 1.2" | 1.2" | 1.6" | 2.8" |
| Batteries | 2 x CR123 | 3 x CR123 | 3 x C | 3 x D |
| Run Time (Continuous, Max signal, No logging) | TBD | TBD | 84 hours ¹ | 482 hours ¹ |
| Range in Air | 8 m | 10 m | 15 m | 20 m |
| Pressure | 200 Bar ² | | | |
| Temperature | -40°C to +85°C | | | |
| Logging Sensors | IMU ³ , Pressure ³ , Temperature ³ , Smart Gauge ³ | | | |
| Delayed Startup Options | Water Sense ⁴ , Pressure ⁴ , Gauge ⁴ , Time ⁴ | | | |

¹ Options to extend battery life longer (up to 120 days) with custom firmware, available on request; reduced amplitude and pulsing to extend life is standard

² Higher pressure options available on request

³ Pressure, Temperature, Smart Gauge options are NOT standard, but available on request

⁴ Water Start, Pressure Start, Gauge Plate Start, and Start on Time options available on request

⁵ This is a guide; bend radius and pipeline details and pig details should be considered when choosing a transmitter

SMART

Reliably track and locate pipeline tools with transmitters equipped with internal sensors, digital signal processing, and deep memory to collect and analyze pipeline data during routine maintenance. Make every pig a smart pig!

MODERN

Fully programmable using our free PigView-EM Bluetooth app with your smart phone or tablet, our transmitters come with free analysis & visualization software to easily view and process embedded sensor data.

VALUE ADDED

Add value to pigs & reduce risk on your assets. By collecting sensor data while pigging, insights can be made about the pipeline asset and performance of the tools, at virtually no additional cost over more antiquated pig tracking systems.



Pressure & Temperature Logging EM Transmitters

Our transmitters allow users to not only reliably track and locate pipeline tools, but are also equipped with internal pressure sensors, temperature sensors, IMU, digital signal processing & deep memory to allow for the collection and analysis of pipeline data during routine maintenance and cleaning operations. Using our line of intelligent pig tracking transmitters can make every pig a smart pig.



Gauge Plate Logging EM Transmitters

In addition to our embedded sensing options on Propipe Trident Intelligent EM Transmitters, users can easily interface the Propipe Trident line of transmitters to our intelligent gauge plate systems to detect and locate pipeline defects in real time or in post processing.

The location of gauge plate anomalies can be quickly located by either post analysis using our free software PigView-Analytics, or by setting up the transmitter to communicate gauge plate status through the pipeline. AGM points can easily determine the gauge plate status and potential defects or anomalies can be found almost instantly.

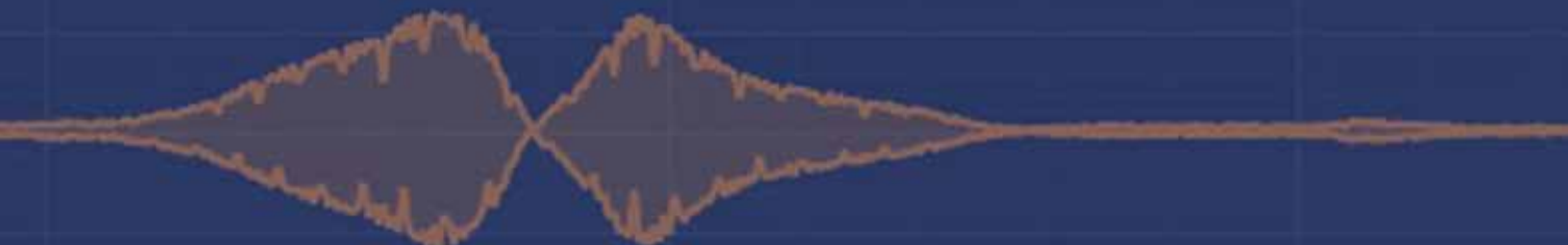
All Intelligent Gauge Plate EM Transmitters are also capable of logging IMU, pressure and temperature profiles that can be viewed with our free PigView-Analytics software.



PigView Analytics Software

View and analyze your data within minutes of recovery.

Every transmitter sold includes free analysis and visualization software, PigView-Analytics, for easily viewing and processing embedded sensor data such as 9 axis IMU (3D acceleration, 3D Gyro, 3D Compass) and Pressure/Temperature Profiles.



BUILDING INTELLIGENT TECHNOLOGY.

Propipe North America is a high technology company built on the talent in engineering, signal processing, and product development of its employees.

Founded in 2013, Turbulent Research began by building a broad range of underwater acoustic products for use in oil and gas, underwater construction and ocean science. In 2018, Turbulent Research was acquired by Propipe Ltd., a major player in the design and manufacture of pipeline pigs in the UK.

This merger of experience and technology was made to enhance the development of its revolutionary line of subsea and surface acoustic pig tracking products.



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