



# ABOVE GROUND MARKER



## Product Overview

Propipe APEX is an ultra-reliable, accurate and easy to use autonomous above ground marker (AGM) that enables real - time remote tracking of pigs with EM transmitters, rare earth magnets, or acoustically with a geophone Input.

APEX AGM communicates streaming data over a wireless Interface to a web-based software portal, so users can get real-time passage information, live geophone audio, or historical records at any time.

Users who pair these devices with our unique Intelligent EM transmitters, can build an entire system that tracks, logs, collects and processes pipeline data from In-situ pigs easily, seamlessly and in real-time.



## Remote Autonomous Pig Tracking

- Reliable
- Cost Effective
- Track Remotely
- Track Safely
- Bluetooth Enabled
- Geophone Compatible

Devices in the field can also be configured and controlled over bluetooth connection to cellular phones or tablets using the Propipe PigView- Mobile application.



The APEX AGM relies on digital signal processing methods to provide robust and false-alarm free pig passage information. Raw data is streamed to the cloud using the embedded cellular connection or satellite radio. Passage data is recorded continuously, and time stamped with extremely high precision using GPS time synchronization technology.

Customers who purchase AGM's gain access to the entire PigView suite of software products, including the web based portal PigView-Mobile and our PigView-Analytics software package for post analysis of passage data. Customer service is available 24/7.



## APEX AGM

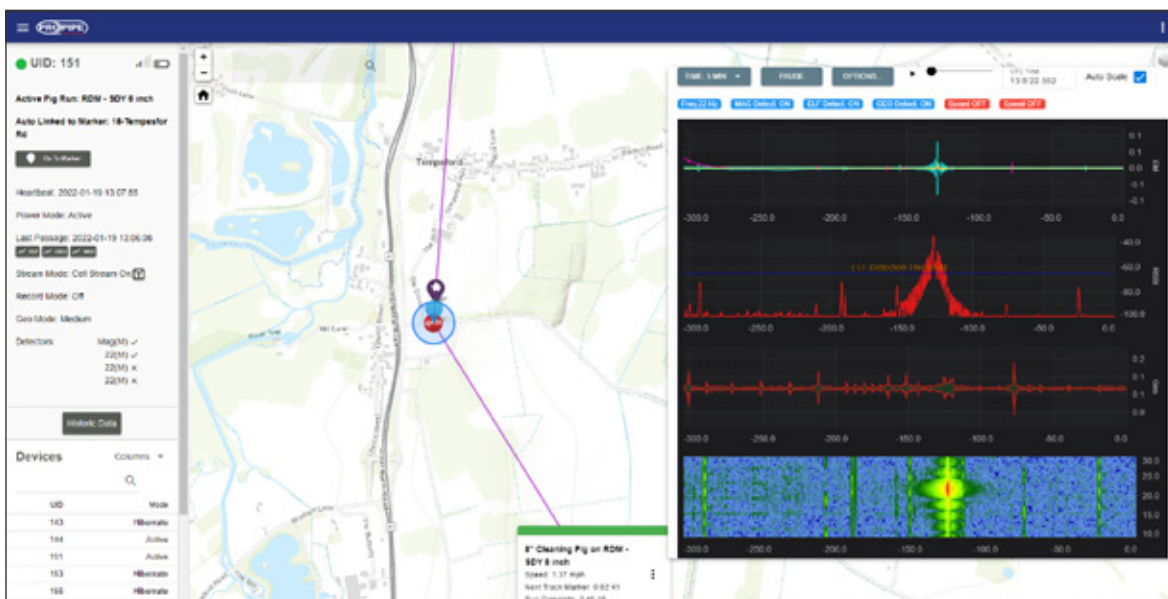
Battery Life	200Hrs (Continuous), Much Better with Sleep Mode
Battery Type	6x 'D' Cell Alkaline
Internal Storage	64GB (almost unlimited raw data storage)
Internal GPS	3 m accuracy; 100 us Time Sync
Temperature Range	- 40 °C to + 85 °C
Devices Detected	All EM frequencies, Magnets plus Geophone sound
Communications	3G, 4G & LTE Cellular, Iridium Satellite, Bluetooth
User Interface	Smartphone, PC Software, Push Button / LED
Geophone	External Connector & Internal Amplifier
Environmental	IP67; Sealed against Rain & Dust



## REMOTE PIG TRACKING

### PigView- Web

Track live and get real-time and historical passage data over the internet using our web-based software portal PigView-Web. View real-time sensor data or listen to geophone audio wherever there is an internet connection available.



Historic Data for 143

Timestamp	Detection Count	Frequency	Data	Verified	Delete	Pig Run/Tool	Passage Location	Status
2021-02-01 13:50:29.196278	51	0						Online
2021-01-25 13:44:36.197791	17	0						Online
2021-01-25 13:42:38.579687	16	0						Online
2021-01-25 13:41:58.413372	15	0						Online
2021-01-22 14:44:36.193876	8	0						Online
2021-01-22 14:41:40.672937	7	0						Online
2021-01-22 14:40:16.229778	6	0						Online
2021-01-22 14:36:43.629310	5	0						Online
2021-01-22 14:35:39.159937	4	0						Online
2021-01-22 14:34:46.347716	3	0						Online
2021-01-22 14:34:10.995750	2	0						Online
2021-01-22 14:32:15.173437	1	0						Online

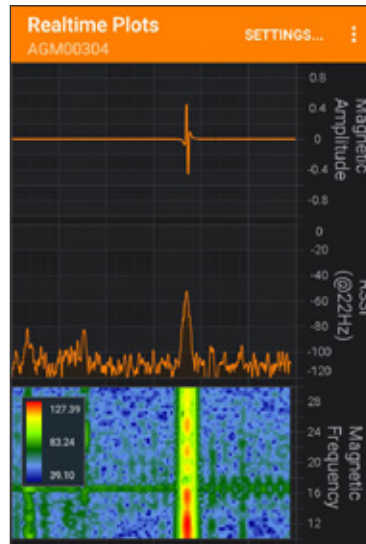
Reduce costs and time by capturing live pig tracking information remotely, download and store all historical records in the cloud.



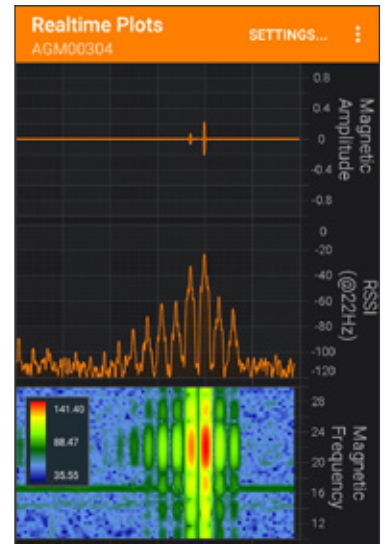
## PigView- Mobile

Use PigView - Mobile to configure and stream data from any AGM, Receiver or Transmitter from Propipe. AGM's can be programmed to detect any frequency EM Transmitter or permanent magnets while live EM and magnetic data can be streamed in real-time directly to a phone or tablet.

PigView-Mobile turns any AGM device into a digital wireless Geophone or wireless EM Receiver.



Rare-Earth Magnet Signature



EM Transmitter Signature

