

POSITION TRACKING SYSTEMS, INC.



RigsEyeTM

Product Summary



RigsEye™

WHAT IS RIGSEYE?

RigsEye is a system for Mobile or stationary drilling rig data collection, transmission and analysis to provide the customer with remote monitoring and management tools that allows proactive management intervention to improve the safety, quality and performance of their fleet. Utilizing low cost transmission options and simple to use devices the activities of the rig crews can be monitored and analyzed by management from remote locations.



RigsEye™

RIGSEYE – DATA AVIALBLE

Currently RigsEye monitors the following Activities:

- Rig Location (Includes Carrier Speed)
- Weather Conditions – Wind speed, direction, temperature and humidity
- Block Position and Speed – requires installed Posi-Stop system
- Weight on Line – requires Posi-Stop Plus system installed
- Posi-Stop Events – such as system turned on/off, calibration performed, limit reached, brake activated, etc...



RigsEye™

DASHBOARD – REAL TIME DISPLAY OF DATA



RIG INFORMATION

RIG NUMBER RIGTEST	YARD NUMBER 17	OPERATOR Mike Gowan	CALIBRATION DATE/TIME	WIND DIRECTION South	TEMPERATURE 0° F	DATE 1-Oct-2013
LOCATION (LONG/LAT) 82° 25' 11.4480" W / 34° 52' 12.7680" E	YARD NAME Taft	SUPERVISOR Moody Behery	ENCODER COUNT	WIND SPEED 0 MPH	HUMIDITY 0%	TIME 3:54:30 PM

POSI STOP DISPLAY

BLOCK LIMIT CONTROL SYSTEM

BLOCK POSITION WARNING

POSI-STOP PLUS

PERCENT OF TRAVEL

67

PROGRAM INSTRUCTIONS

1. SWITCH TO OFF
2. BLOCKS TO LOWER LIMIT
3. SWITCH TO SET
4. BLOCKS TO UPPER LIMIT
5. SWITCH TO ON
6. PRESS BYPASS SWITCH TO RELEASE BRAKE

ACTUAL LOAD

156

LIMIT LOAD

250

RIG LOCATION

WEIGHT GAUGE

RIG EVENTS

10/1/2013 15:54:19 **Limit Exceeded**

BLOCK SPEED

WEIGHT ON LINE

BLOCK POSITION

BLOCK POSITION VS BLOCK SPEED

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<http://www.posi-stop.com>
 (864) 631-2441
sales@posi-stop.com



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RIGSEYE – HOW DOES IT WORK?

- A device called a Data Acquisition Module (DA) collects data in one second samples from various devices and stored on the DA
- The DA uses Bluetooth connection to transmit the data from the DA to a mobile device
- If cellular or satellite connection exists at the rig location data is sent by the mobile device in 10 second packets to the remote server
- If cellular or satellite connection does not exist data is stored on the mobile device and is sent once the mobile device is in wireless or cellular range



RIGSEYE – DEVICES THAT CONNECT TO THE DATA ACQUISITION BOARD

The DA connects to different devices to collect their information

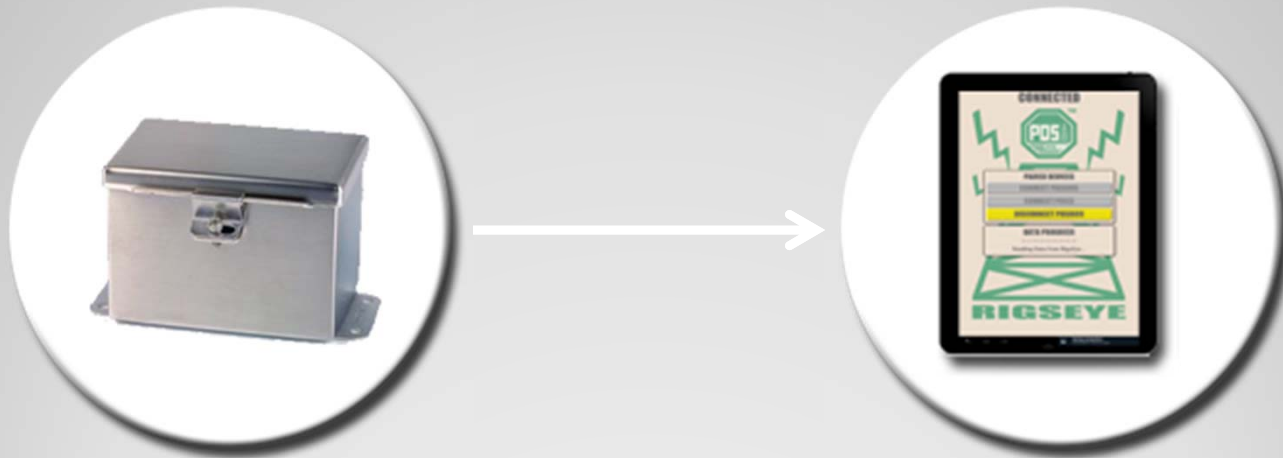


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RIGSEYE – THE DATA ACQUISITION BOARD CONNECTS TO TABLET OR SMART PHONE

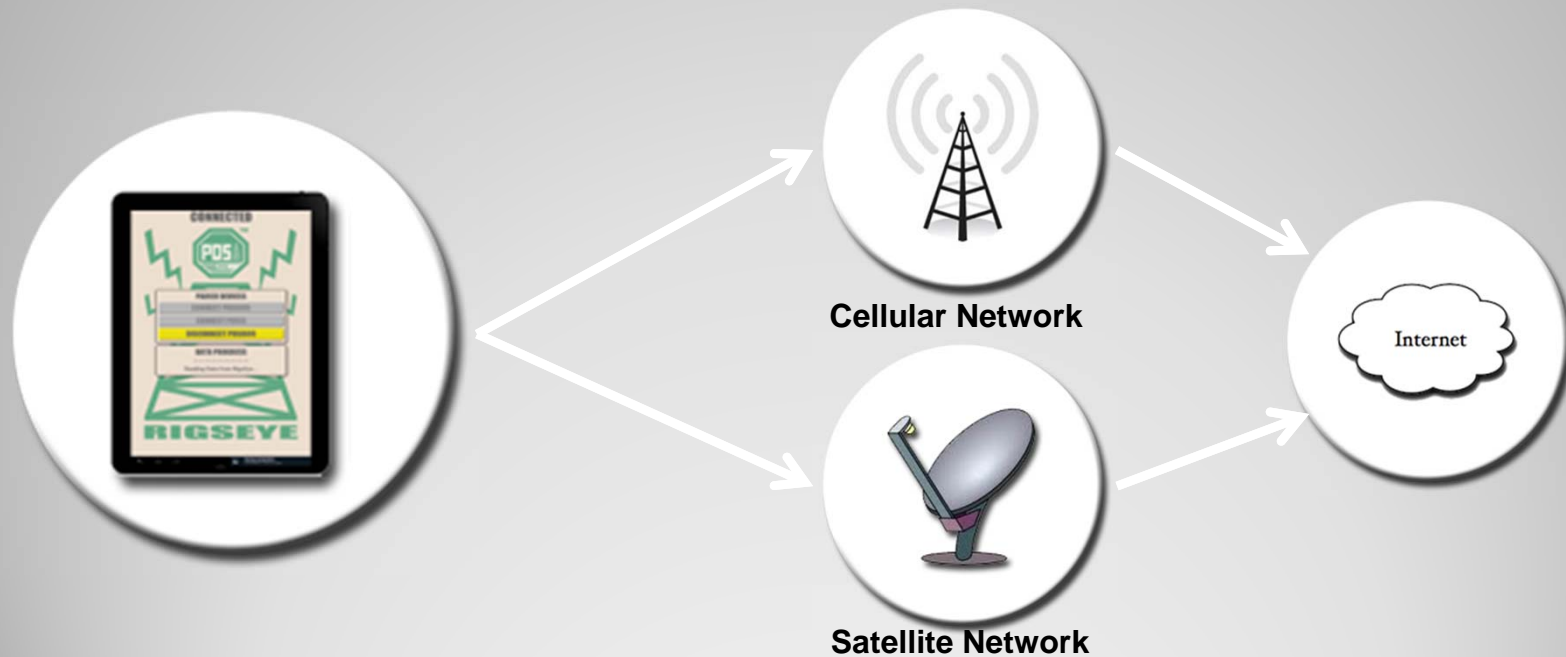
As the data from the different devices is collected by the DA, data is sent to a tablet or smart phone wirelessly using Bluetooth to transmit the information over the Internet (Cellular or Satellite)





RIGSEYE – THE TABLET/ SMART PHONE SENDS THE INFORMATION OVER THE INTERNET

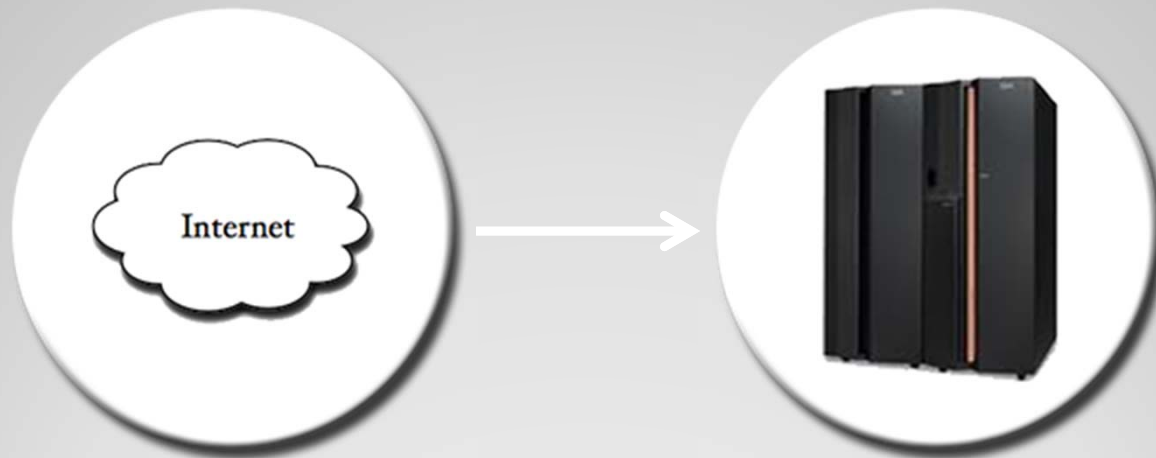
As the tablet/smart phone collects the information from the DA, it sends it in near real time through the Internet.





RIGSEYE – THROUGH THE INTERNET, DATA IS SENT TO THE RIGSEYE DATACENTER

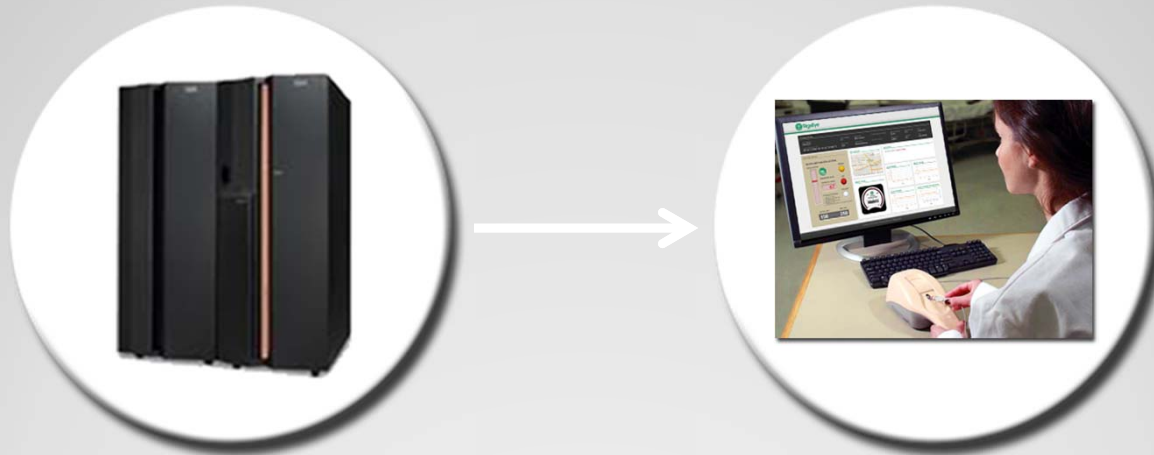
As data is sent through the Internet, it is collected at the RigsEye Datacenter.





RIGSEYE – USERS CAN ACCESS THE DATA SECURELY FROM ANYWHERE IN THE WORLD

- Once the data is sent to the RigsEye Datacenter it allows users to securely access the information through the web.
- RigsEye allows for event notification via SMS or Email to authorized users





RIGSEYE – ANY DATA INPUT CAN BE COLLECTED

- The DA is programmed to work with PTS's current devices
- The Engine CANBus data collection is currently under development – ETA 1Q 2014
- The Posi-Stop Sandline System is currently under development – ETA 4Q 2013
- Modular design allows for data collection from any device on a rig that transmits metered data.



RIGSEYE – PUTTING IT ALL TOGETHER

The diagram below shows how the RigsEye system works



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RIGSEYE – CONTACT INFORMATION

For more information on RigsEye, please contact:

Barry Nield

(864) 787-0700

or

Alex Nield

(864) 404-5308

sales@posi-stop.com

Or visit our website at:

<http://www.posi-stop.com>

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