

ModuleTrac*

an InSight*-enabled mobile application that scans and tracks ZeeWeed* module location, repair and maintenance history

what does ModuleTrac do?

- Tracks location and repair history for each ZeeWeed ultrafiltration membrane module, cassette and train installed in a water treatment plant.
- Inputs location and repair history accurately.
- Provides enhanced visibility into module, cassette and train data via InSight, a secure Asset Performance Management solution for monitoring and optimization of water treatment assets and systems.

what features does ModuleTrac have?

- **Log** detailed location and repair history for thousands of modules quickly.
- **Archive** all location and repair history in a central database.
- **Add** detailed notes and reminders about each module for other staff members.
- **Display** data in charts that are easy to read and understand.
- **Enable** access to historical data on a secure website anytime and anywhere.
- **Allow** multiple log-in accounts to give all staff access to ModuleTrac information.

ModuleTrac is currently available for download on smartphones with iOS and Android operating systems.

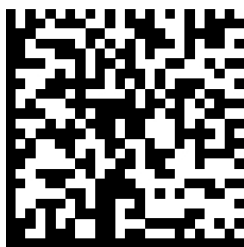


Figure 1: Unique barcode found on ZeeWeed membranes

how does ModuleTrac work?

- The ModuleTrac app uses a smartphone camera to scan the electronic barcode found on each ZeeWeed module.
- It includes a simple graphic interface that makes it easy to record and retrieve data about any ZeeWeed train, cassette, or module.
- Module locations, fiber repairs and notes are easily entered with simple action commands. An "of-line" mode option allows users to use the app even when not connected to the Internet.
- Data is then seamlessly integrated into InSight for reporting, trending and analysis.

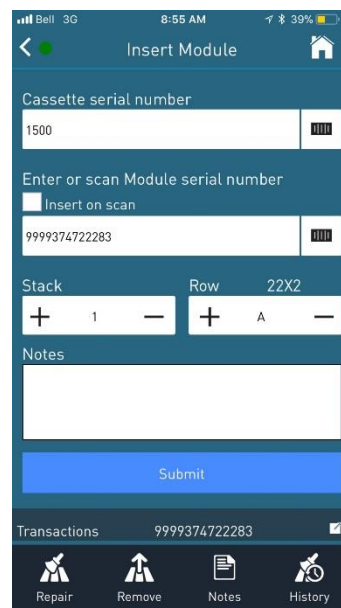


Figure 2: Screenshot of the ModuleTrac interface

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benefits of ModuleTrac

- **Simplify** the tracking and analyzing of module repair history.
- **Organize** information into one, easy to use application – eliminating the need for multiple manual spreadsheets
- **Understand** the best and least-performing modules.
- **Uncover** the root cause of issues and their location relationships.

simplify and organize tracking

- Scan the module barcode before logging a repair to save the repair history to InSight, where it can be easily accessed and analyzed.
- View graphs and charts that organize your repair history making it easy to identify trends and potential issues.

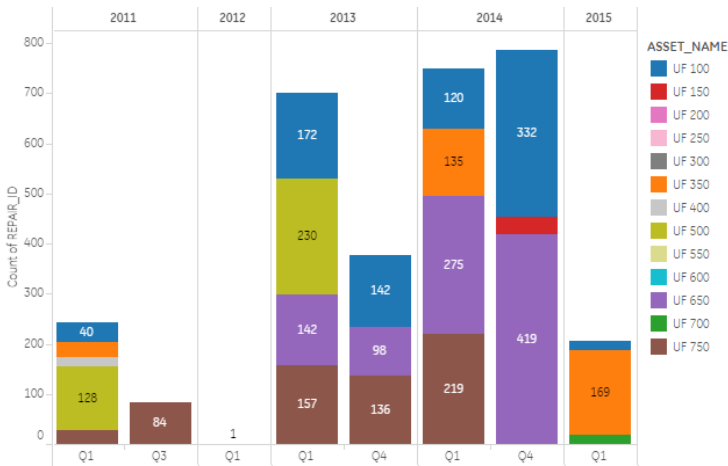


Figure 3: Plant repair history

understand issues within the train

- View each train individually to quickly identify the problematic cassettes.
- The location of the cassette in the train can be identified along with the number of repairs over a selected period of time.

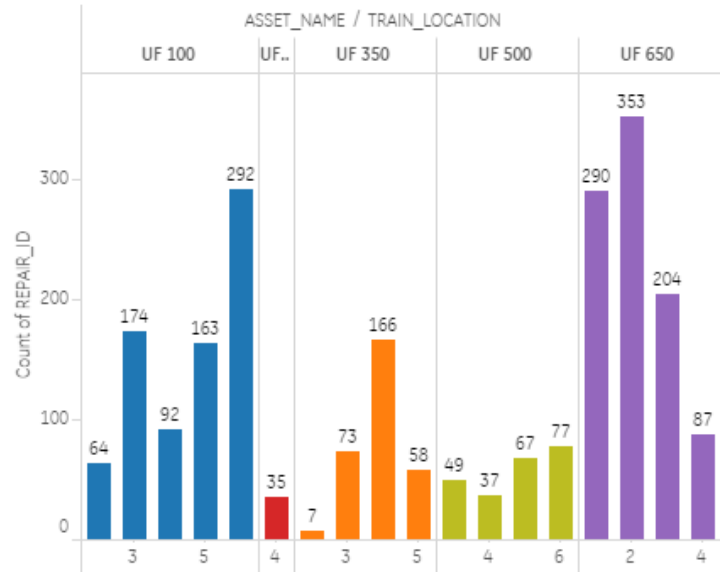


Figure 4: Cassette repair history

uncover root cause

- Dive deep into the cause of the problem and determine the specific location of the repairs.
- Identify your cassette of interest and learn about the exact repair locations.

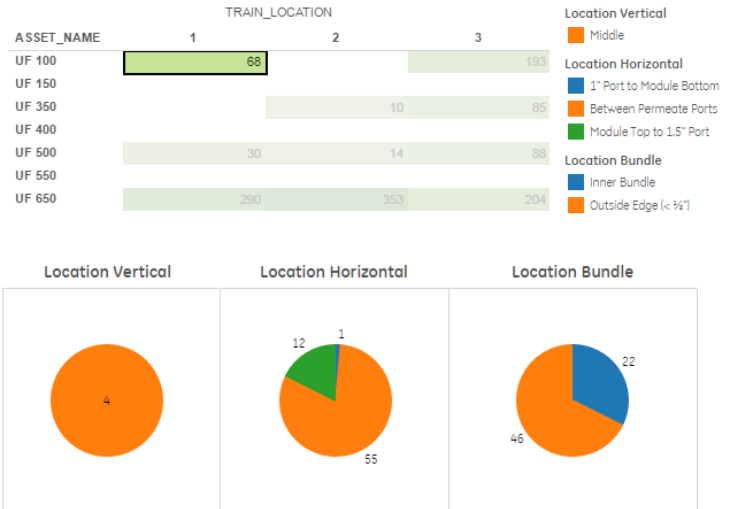


Figure 5: Specific repair location