

## Leak Detection Sensor – Cleaning & BriteSensor™ Recovery

### What to do First:

- Identify and/or chemically analyze the liquid detected and repair the source of the leak (*be sure to follow all environmental rules, regulations, procedures and reporting requirements*).
- Pump the fuel / waste water mixture into an approved containment vessel and clean the area with absorbent pads (*follow disposal regulations & safety precautions*).
- Remove and clean the exposed sensor. *In the case of several types of BriteSensors, replace it with a new or recovered sensor (see [Applicable BriteSensors with reactive strips](#) below).*

### INCON BriteSensor Cleaning & Recovery:

All BriteSensors can detect two or more alarm conditions. Most BriteSensors can also discriminate between petroleum products and water (*except the TSP-HIS Hydrostatic Interstitial Sensor*). When a liquid or condensed hydrocarbon vapor comes in contact with the sensor, the dark orange strip inside of the sensor swells / expands, which causes it to enter into a PRODUCT alarm state. **Do not** discard BriteSensors that are in a *product alarm state* — they can be reused after cleaning and adequate recovery.

#### *Applicable BriteSensors with reactive strips:*

TSP-DDS (Discriminating Dispenser Sump Sensor)

TSP-DTS (Discriminating Turbine Sump Sensor)

TSP-MWS (Discriminating Monitoring Well Sensor)

#### *Approximate Recovery Times:*

- **90 minutes** for a 24 hour soak in gasoline
- **30 days** for a 24 hour soak in diesel fuel

**NOTES:** *Recovery is delayed by high humidity or low temperatures. Recoveries are also delayed from prolonged or repeated hydrocarbon exposures, or from exposures to diesel fuel*

*Install a new / spare recovered sensor to maintain EPA compliance during recovery (**Important** when the sensor has had extended exposures or exposures with diesel fuel)*

*A BriteSensor IS NOT and WILL NOT be in a PRODUCT alarm state after it has recovered (this can be verified by connecting / wiring it to a Tank Sentinel console)*

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***How to Recover a BriteSensor in a PRODUCT alarm state:***

1. Clean it – rinse / soak in clean lukewarm water
2. Wipe off with clean dry rag
3. Dry it in a warm, low-humidity environment ( 70 to 85 degrees F ) until the alarm clears **Continued...**

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**Cleaning INCON Sensors (those needing no recovery period):**

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The TSP-DIS sensor only requires cleaning after product is detected (PRODUCT alarm generated). The TSP-EIS sensor only requires cleaning after a liquid is detected (standard or liquid alarm is generated)... this is especially true when a product-like odor is noticeable.

***Applicable Sensors (those without hydrocarbon-reactive strips):***

TSP-DIS (Discriminating Interstitial BriteSensor)

TSP-EIS (ElectroOptic Interstitial Standard sensor)

**How to Clean Sensors (those needing no recovery period):**

*Follow the advice given in the first section of this bulletin, then*

1. Unscrew and remove the tip of the sensor for cleaning
2. Rinse the sensor and its tip with clean lukewarm water
3. Wipe-off the two conductive metal elements & the diamond shaped lens with a clean dry rag
4. Reinstall the sensor tip, and reinstall the sensor in its original location after the leak was fixed.

