

Continuous Statistical Leak Detection (CSLD™)

Software Enhancement for TLS-350R and TLS-350 Systems. Continuous 24-hr leak detection without tank shutdown. No lost business! No lost operating time!



- ▶ *Uninterrupted business for 24-hour stations or around-the-clock fueling operations.*
- ▶ *Automatic, continuous operation — no need to schedule test times.*
- ▶ *Third-party tested — exceeds U.S. E.P.A. standards!*
- ▶ *Meets Federal, state and local compliance requirements for monthly monitoring.*
- ▶ *Certified for manifolded tanks.*
- ▶ *Up-to-the-minute leak test results available 24 hours a day.*
- ▶ *Automatic leak test report every 24 hours.*
- ▶ *Qualified for tanks up to 30,000 gallons.*
- ▶ *More accurate test results... fewer false alarms.*
- ▶ *Simple upgrades available for TLS-350 and 350R systems already in the field.*

Automatic, continuous leak detection

CSLD is an advanced tank testing technology that makes full use of the TLS-350's in-tank monitoring capabilities.

The TLS-350R and TLS-350 equipped with new CSLD software enhancement continuously monitor fuel height and temperature information to detect idle times in the tank. During each idle period, data is collected and combined with information from other idle periods to form a highly accurate leak detection database. Sophisticated statistical analysis techniques in CSLD constantly evaluate *all* new and *all* existing information in the

database to discard invalid data and perform leak tests based on only high-quality information in the current database. In fact, a new leak test is performed every time new data from an idle period is added.

Since the database is constantly being updated, leak test results are always current — not results from a static leak test that may be days or even weeks old.

Leak tests are performed using the best data from up to the previous 28 days, and test results are continuously updated as new data are gathered. Test results are provided automatically every 24 hours. Press a key at any time to access up-to-the-minute leak test results.

Greater accuracy, quicker response times

CSLD's algorithm sorts through all available information and uses only the highest quality data to perform its leak tests. Since invalid data are thrown out and only the best data are used, leak test results are more accurate. The chance of false alarms is greatly reduced.

Because leak test data are collected continuously and updated frequently, the response time to detect leaks is shorter than that of scheduled static leak tests.

Certified Solution for Manifolded Tank

CSLD is the one system certified for manifolded tank applications. Owners of sites with manifolded tanks can also perform continuous in-tank leak tests to meet U.S. E.P.A. performance standards for monthly monitoring without the need to shut down. Static leak tests are accommodated without the need to break the siphon between manifolded tanks.

TLS-350R and TLS-350 with CSLD for manifolded tanks accurately monitor manifolded tank sets with up to three tanks per set, totaling a capacity of up to 30,000 gallons per set. During system setup and operation, the manifolded tank sets are recognized as one tank.

Third-Party Certified

Third-party testing confirmed that CSLD meets Federal, state and local compliance requirements for monthly monitoring. Test results showed a 99% probability of detection and less than a 0.1% chance of false alarm! That far exceeds the U.S. E.P.A. performance standards of 95% probability of detection and 5% probability of false alarm.

Call us for a copy of the test results.

(continued)

Ideal for High- and Low-Volume Sites

CSLD eliminates the need to shut down tanks to perform leak tests. This is especially important for 24-hour stations and C-stores, and around-the-clock operations where shutdowns mean lost revenue or lost operating time.

In addition, CSLD is simple and easy to use. The site operator doesn't have to schedule leak tests, since tests are constantly performed and results are automatically provided.

CSLD is an accurate and reliable leak detection technology—and that's important to every business, regardless of size!

CSLD Through-Put Limitations

The following list identifies the through-put for each tank capacity for which CSLD is effective. Total Tank Capacity:

FUEL TYPE	TANK CAPACITY				
	10K	12K	15K	20K	30K
Gasoline	200K	200K	200K	150K	100K
Diesel	200K	200K	200K	200K	200K

NOTE: The same through-put limitations apply to single tanks and manifolded sets.

Standard Model

MODULE FORM NO.	DESCRIPTION
330160-102	Continuous Statistical Leak Detection (CSLD) Software Enhancement

Console Compatibility

The CSLD Software Enhancement may be installed in the following consoles:

FORM NO.	DESCRIPTION
Series 8470	TLS-350 UST Monitoring System
Series 8482	TLS-350R Business and Environmental Management System

In-Tank Probe Compatibility

PROBE FORM NO.	DESCRIPTION
847390-XXX*	MAG 1 Magnetostrictive Probe

* Refer to Veeder-Root Price List for required probe lengths and corresponding 3-digit Probe Form Number suffix.

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