

Leak Detection By Mass Sensitivity

The MTG 3012 LD is a Multi-function Tank Gauge (MTG™) specifically designed for applications requiring leak detection for static tank testing. It is an extremely accurate measurement and mass sensitivity device that is unique amongst tank gauging.

A leak is a very slow change of MASS of the product in the tank. However, change in level is strongly influenced by temperature. Therefore, level based devices such as Radar and Servo are virtually unsuitable for leak detection as they do not measure mass directly.

Mass provides the most accurate MTG characteristic and can be used for both custody transfer and leak detection.

Two options for leak detection (Unauthorized Movement):

- Standard MTG 3012 with some firmware modifications.
- MTG 3012 LD using both software modifications and sensor placement.

Both approaches will provide reliable detection of Unauthorized Movement (Leak Detection, Improper Line-ups, Theft, etc.), with a difference that the second one offers higher sensitivity for shorter time spans.

MTG tests proved that less than 1.0 gallon per hour leaks can be detected from 130ft diameter cone roof storage tanks within the span of 24 hours to 48 hours during a tank tightness test meeting EPA requirements. No other gauge is capable of providing such performance. Note: A previous standard six sensor model was used in this test. Current models are much more accomplished.

MTG 3012 LD - Optimized for Leak Detection

