

Issue Date: May 23, 2024

## Pneumercator Company, Inc.

### TMS4000 and TMS4000M Monitoring Panel (MP450 Series Magnetostrictive Probe)

#### AUTOMATIC TANK GAUGING METHOD

<b>Certification</b>	Leak rate of 0.2 gph with PD = 97.13% and PFA = 2.87% for 2 hour test. (20,000 gallon tank) Leak rate of 0.2 gph with PD = 99.17% and PFA = 0.83% for 8 hour test. (30,000 gallon tank)
<b>Leak Threshold</b>	0.1 gph for leak rate of 0.2 gph A tank system should not be declared tight if the test result indicates a loss or gain that equals or exceeds this threshold.
<b>Applicability</b>	Gasoline, diesel, aviation fuel.
<b>Comments</b>	<b>California Code of Regulations require a written statement of compatibility for systems containing products other than petroleum-based fuels (biodiesel blends greater than 20%, ethanol blends greater than 10%, solvents, etc.).</b> Not evaluated using manifolded tank systems. Therefore, this certification is only applicable when there is a probe used in each tank and the siphon is broken during testing. Tests only portion of tank containing product. As product level is lowered, leak rate in a leaking tank decreases (due to lower head pressure). Consistent testing at low levels could allow a leak to remain undetected. EPA leak detection regulations require testing of the portion of the tank system which routinely contains product.
<b>Tank Capacity</b>	Maximum of 30,000 gallons for leak rate of 0.2 gph Tank must be between 20 and 90% full.
<b>Waiting Time</b>	Minimum of 8 hours between delivery and testing. Minimum of 5 minutes between dispensing and testing. There must be no delivery during waiting time.
<b>Test Period</b>	Minimum of 2 hours (0.2 gph leak rate / 20,000 gallon tank) Minimum of 8 hours (0.2 gph leak rate / 30,000 gallon tank)  Test data are acquired and recorded by system's computer. Leak rate is calculated from data determined to be valid by statistical analysis. There must be no dispensing or delivery during test.
<b>Temperature</b>	Average for product is determined by probe which contains 5 thermistors. At least one thermistor must be submerged in product during test.
<b>Water Sensor</b>	Must be used to detect water ingress. Minimum detectable water level in the tank is 0.488 inch. Minimum detectable change in water level is 0.124 inch.

**Calibration** Thermistors and probe must be checked and, if necessary, calibrated in accordance with manufacturer's instructions.

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