



# GRAFTEL LLC.

## Model 1402 Leak Rate Monitor

The Model 1402 is a ground up new design in leak rate monitors.



This unit has two flow ranges and two pressure channels. The 1402 quantifies the component's leakage rate by maintaining a constant gas pressure against the barrier being tested while measuring the gas flow rate needed in order to maintain that pressure constant.

The 1402 is a "mini" version of our 1401 LRM. It is designed for instances where lower flow rates are observed. Using two ranges, a 400 to 1 turn-down ratio is achieved with a 1% of full scale accuracy over each of the two ranges. Full scale flow ranges up to 5 slpm may be ordered.

### INNOVATIVE DESIGN FEATURES

**Automatic Operation:** The 1402 touchscreen program controls an internal solenoid valve to set the quick fill configuration and it switches automatically from the quick fill configuration to test configuration once the test pressure has reached and stabilized. The touch screen program then automatically directs the flow to the meter with appropriate flow range.

**USB Data Capture:** Touch screen enables user to save test data on a USB flash-drive.

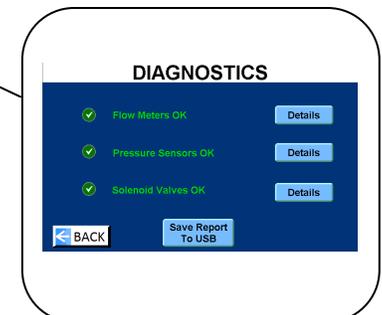
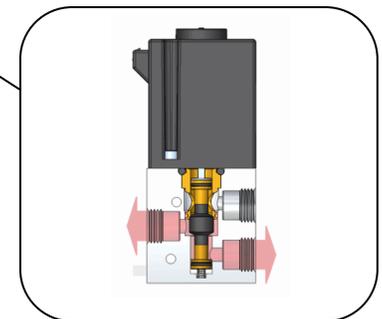
**Customized Data Recording Options:** The test data file name can be customized by the user to indicate the valve number/ test location and the initials of the tester. These custom file names can be manually entered through the touchscreen or uploaded onto the permanent memory of touchscreen using a USB flash drive.

**Re-Calibration:** The two flow meters and the two pressure gauges can also be re-calibrated and adjusted through the touch-screen interface.

**Diagnostic Check:** New color touchscreen program enables the user to run diagnostics on all flow and pressure sensors to check for any problems and save the results on a USB flash drive. The results can then be emailed to Graftel so that we can help you identify and troubleshoot any issues.

**ALARA:** The 1402 offers an automatic quick filling and ranging system. The automatic operation of the 1402 LRM allows for the user to set up the LRM in a high dosage area, leave it there in quick fill mode and then return to record the points. The physical presence of the operator is no longer required for much of the LRMs operation. This can reduce the dosage of the operating personnel significantly.

**Optional Radio:** A WiFi option is offered that allows the user to see and control the touchscreen on a LAN connected PC. Data can be wirelessly transmitted from the LRM to PC and enable real time trending/data analysis.



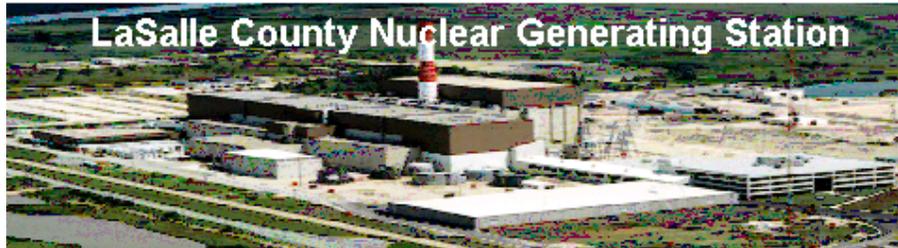


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### GRAFTEL MODEL 1402 LEAKAGE RATE MONITOR



FIRMWARE 1501  
SERIAL# LS 1402-01

START

## SPECIFICATIONS

### High Accuracy Pressure Regulator

Maximum inlet pressure: 250 psig  
Test pressure set point between 5 and 80 psig  
Relieving pressure regulator.

### Ruggedized Color Touch Screen Display

4.3" Widescreen, 480 x 272 pixel

### Two Flow Ranges

Laminar element flow meters  
Full scale of each range specified by user  
Standard FS = 1 slpm  
Optional FS = 5 slpm  
20 to 1 turn-down ratio recommended  
Accuracy:  $\pm 1\%$  of FS  
Repeatability:  $\pm 0.2\%$  of FS

### Pressure

Inlet Pressure: 200 psig  
Test Pressure: 20 to 100 psig (user select)  
Accuracy:  $\pm 0.5\%$  of FS

### Power

24 VDC wall power supply