

D-2 Incorporated

JF-1A-RC RampCheck Product Brochure

Part Number: JF-1A-RC
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The JF-1A-RC RampCheck combines five test methods into one easy to use handheld device. Combining Density, Conductivity, Temperature, Shell Water Detector, and ASTM Color in 1 Unit.

Advantages of the D-2 RampCheck

1. Rugged ergonomic design
2. Combines five measurements into one device for the price of each individual unit.
3. Automated measurement technology, no human error, no user training.
4. Conductivity: Equivalent to ASTM D2624 / IP 74 Standard Test Method for Electrical Conductivity of Aviation and distillate fuels.
5. Density: Equivalent to ASTM D4052 / IP365 Standard Test Method for Fuel Density or API Gravity of Liquid Petroleum by Portable Digital Density Meter.
6. Color: Equivalent to ASTM D156 or ASTM D6045 Standard test method for Saybolt Color of Petroleum Products.
7. Free Water: Equivalent to ASTM D3240 Standard Test Method for Undissolved Water in Aviation Turbine Fuels.
8. Temperature: precision digital measurement for automatic correction of the above tests.
9. Rapid Screening, takes 35 seconds to run
10. Labor Saving - automating testing ensures human error is eliminated from the results.
11. USB Data output capability, 100% data storage in PC FAT compatible files.
12. Field verification standards, field calibration is possible.
13. Decreases the size and weight of the equipment significantly, thus saving the operator footprint space.
14. Easy to use touch screen display is perfect for the iPhone™ Generation.



D-2 Incorporated RampCheck combining five tests into one device, the first ever “Iphone™” of fuel testing:

The oil and gas industry has a large amount of technology that is designed for one specific test method. This RampCheck device is the first handheld device that combines multiple ASTM test methods into one unit. By combining these test methods into one small and rugged device, you save money on the initial purchase, you save significant storage space, and eliminate the time it takes to run each test individually.

One of the most beneficial advantages to our RampCheck is the fully automated digital design. To operate the instrument you simply place the sensor tip into the fluid and hit the run test button on the screen. The test is done completely automated in 35 seconds, and displays the values digitally.

The digital interface is a touch screen display that works very similar to any smart phone. It has one Home button that is used to return the user to the home screen and to switch the unit on and off. The device is operated by the touch screen display and requires about one minute of training to fully comprehend all the features of the device.

The Density Measurement is conducted with a MEMS density sensor. The device draws the fluid up into the unit and expels the fluid back down into the same sample beaker. Internal sampling handling is designed to eliminate sample to sample cross contamination.

We utilized our patented D-2 Inc. Conductivity AC Measurement Technology. Thus allowing our handheld RampCheck unit to measure conductivity of any distillate fuel, in any sample container accurately. Same measurement technology that is used in the ASTM D2624 Listed JF-1A-HH handheld.

RampCheck features continued:

Density readings are normally displayed as absolute reading along the test temperature. The user has the option to set the device to report relative density and reference temperature (compensation value fully programmable for the fluid under test).

- Integral Pump
 - Pass/ Fail Indication (ASTM D1655 Limits)
 - 8 Data Set Memory with recall
 - Time/ Date Stamp
 - Long Life Li-Ion Battery (Up to 30 samples on single re-charge)
- Any USB device charger can be used.

RampCheck Specifications:

Density: 750 - 850 k/m^3
Conductivity: 0-2,000 pS/m
Temperature: -20°C to 40°C
Free Water: 0-30 ppm
Color: Saybolt -15 to Saybolt +15
Sample Size: 5 mL

Standard RampCheck Instrument

Conductivity Accuracy : +/- 2% of Reading

Density Accuracy: +/- 0.2 k/m^3

Free Water Accuracy: +/- 2 PPM

Temperature Accuracy: + 0.2° C

Hazardous Zone: ATEX Zone 1

Calibration: SRM Materials, High and Low Values.
NIST Traceable & ASTM D2624

Environmental Storage Temp: -40°C to 80°C

Power: USB Port

Outputs: USB, Digital Display, Data Results

Methods Pending: ASTM D2624, ASTM D4052,
ASTM D156, ASTM D6045, ASTM D3240

Certifications Pending: FM, ATEX

Compliance: CE, ROHS

RampCheck Instrument
is the future,
combining multiple
tests into one easy to
use device.



RampCheck Instrument Applications and Support



Refinery Run Down Lines / Marine and Truck Offloading Terminals

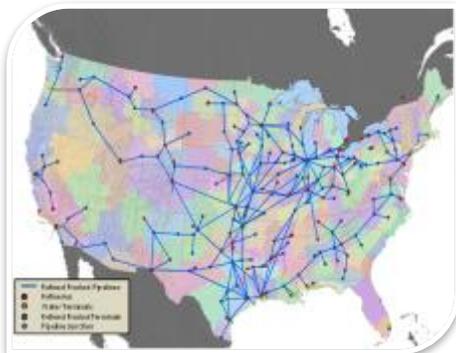
In the future you may be able to use the RampCheck at your refinery run down line will ensure all the fuel leaving your refinery or terminal will pass the fit for use requirements for five tests.



Naval and Military Operations

The RampCheck combines four devices into one device, thus saving both storage space, and cost. Also the extremely easy to use design is perfect for younger generation servicemen and women who are accustomed to typical smart phone type touch screen technology.

The RampCheck saves space, training and cost, it is the perfect device for the armed services.



Pipeline Distribution Terminals

Pipeline Distribution Terminals are an ideal location for use of the WSI. Due to transfer of product these facilities must meet the specifications when transferring fuel. By increasing the accuracy and decreasing the wait time, your distribution terminals will run more smoothly.



Fixed Base Operators (Airports)

Rapid screening of fuel density, conductivity, and free water is extremely important for airports. As the fuel enters the wing of the aircraft, it must be fit for purpose or it puts the entire aircraft at risk. The RampCheck is designed exactly for this environment for a rapid field screening process. Perfect for private aircraft as well.



D-2 Incorporated Direct Customer Support

Fully Supports all of our equipment with direct technical support. We are an ISO 9001:2008 Quality Certified Manufacturer. All of our equipment and services are covered by our one year limited warranty.

Jet Fuel Density,
Conductivity,
Free Water,
Color & Temp

RampCheck
5 in 1 Instrument

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