

JF-1A-ST CONDUCTIVITY STICK (ALL RANGES)

STEP BY STEP USER GUIDE

PLEASE READ BEFORE USE: The JF-1A-ST Conductivity stick is entirely controlled by one piezoelectric button located at the top of the device. Turning on the instrument requires approximately one second of continuous applied pressure, and to power down apply two seconds of continuous applied pressure. The button is a pressure switch, not a contact switch. The instrument is now certified for operation in hazardous locations. Please see the D-2 Inc website for instrument certificates.

NOTE: THESE INSTRUMENTS, WITHIN THE RANGE OF 0-2,000 pS/m, SHOULD BE USED AS DETAILED IN ASTM D2624

1. Prepare a fuel sample in accordance with ASTM D4306.
2. Power on the sensor as described above. The instruments initialization sequence will show the 5-digit serial number, followed by the calibration date, then the instruction, "PUSH TO TEST"
3. Submerge the sensor tip up to the "MINIMUM INSERTION DEPTH" line, and while submerged, swirl around for a few seconds.
4. To record an accurate sample temperature, the stick must be left in the sample for a minimum of 5 mins to allow the housing to reach temperature equilibrium with the fuel sample. (TEMPERATURE READING IS NOT TO BE USED FOR OTHER TESTS SUCH AS DENSITY CORRECTION)
5. Having thermally soaked the stick and while keeping the metal tip submerged, power on the sensor to sample and start a test.
6. Keep the instrument submerged until the moving icon under the word "TESTING," has reached the end and the results appear on the screen. This will take "6 Seconds"
7. Once the measurement is complete, remove the sensor from the fuel sample. The measurement results will display on the screen six times each. The screen will toggle between conductivity (pS/m) and temperature (°C). Take this time to record the displayed values. Having toggled 6 times, the stick will automatically turn itself off after 20 seconds.

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BATTERY REPLACEMENT GUIDE

ATTENTION: OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

1. Use only Energizer LN92 (AAA) batteries for replacement. Failure to do so will invalidate any certification for hazardous locations (FM, FMC, ATEX, IECEx)
2. Firmly grasp the blue sensor body with one hand and the metallic sensor tip with the other. Then rotate the sensor tip counterclockwise until completely unscrewed.

NOTE: DO NOT USE TOOLS TO UNSCREW, AS THIS WILL PERMANENTLY DAMAGE THE INSTRUMENT

3. Next, carefully remove the housing while avoiding contact with the internal components as is possible.
4. Remove and recycle/discard the existing batteries per Local Regulations. Do not puncture, or damage batteries during removal.
5. Carefully insert new, unused, LN92 AAA Batteries being sure to properly align positive and negative terminals. Requires AAA Energizer Ultimate Lithium Batteries (Manufacturer No. LN92)
6. Prior to sliding the housing back over the electronics, examine the O-Ring just above the sensor tip, ensuring it is placed below the threads and undamaged. Contact The D-2 for O-Ring replacement, if necessary.
7. Be sure to avoid cross-threading, screw together the sensor tip and housing until no gap is visible and ensure the O-Ring is properly seated under the housing. The O-Ring should not be visible.
8. With new batteries installed, press the power button and test the instrument for proper operation.
9. An "Air Test" can be run and a result of 0.0pS/m should be recorded. If any other value is displayed, clean the sensor.

Range	National Stock Number	
0-2,000 pS/m:	JF-1A-ST	6625-01-735-6696
0-2,000 pS/m:	JF-1A-ST-1	N/A
0-20,000 pS/m:	JF-1A-ST-2	N/A

For additional information, contact: +1 (508)-329-2046 or sales@d-2inc.com or visit www.d-2inc.c

INFORMATION: The CUGUARD Stick is manufactured by D-2 Incorporated, USA