



D-2 Inc.

Precision Industrial Sensors

Hand Held Conductivity Sensor

JF-1A-HH 0 – 2000 Ps/M Conductivity



The D-2 JF-1A-HH hand held conductivity sensor is portable version of the well-proven JF-1A sensor. The JF-1A-HH provides the same high-accuracy without the problems with sample container material, or requiring sample relaxation due to its use of the D-2 proprietary AC measurement technique. The unit is provided in an industry standard ATEX approved polyamide housing, with built in Lithium Ion rechargeable battery system.

The JF-1A-HH conductivity sensor is constructed of two 316SS coaxial electrode sensors. It has an easy to use menu system allowing up to 10 samples to be internally stored along with Sample Temperature, Date, and Time. Stored data can be transferred the built in Bluetooth interface directly to the users laptop for display. D-2 offers a complete windows software package for data handling and display, this software automatically synchronizes with the JF-1A-HH when in proximity of its blue tooth transmitter, automatically transferring data for long term record keeping on the PC.

Features

- **D-2 Higher Accuracy AC Measurement**
- **Conductivity and temperature output capability**
- **High-Accuracy ($\pm 2\%$ of reading)**
- **Stores up to 10 Data Locations (User can input Location Names)**
- **Built-in “Bluetooth” data interface for ease of data transfer to user**
- **Suitable for Class I Div 2 Hazardous Locations**
- **Fully Temperature Compensated Measurement**
- **Built-In Long Life Lithium-Ion Rechargeable Battery**
- **Windows Data Handling Software (Optional)**
- **Internal Real Time Date & Clock for Data Record Keeping**

19 Commerce Park Road
Pocasset, MA 02559

www.d-2inc.com



Hand Held Conductivity Sensor Specifications

Sensors

| Parameter | Conductivity | Temperature |
|-------------|--------------------------------|----------------|
| Range | 0-2000 pS/m* | 0-35°C* |
| Accuracy | +/- 2 pS/m (+/-2% of reading) | +/-0.5°C |
| Resolution | 0.1 pS/m | 0.1C |
| Sensor Type | 316SS Coaxial Electrode | Platinum |
| Calibration | Internal Source Zero and Scale | NIST Traceable |

*wider ranges available – contact factory

System

| | |
|---------------|---|
| Power | Built-In 2.6Ahr Lithium Ion Battery (1000 Samples) Universal Voltage Wall Mount Charger |
| Outputs | 128X64 Dot Matrix Display Indicating Conductivity and Temperature Sample Trend Line Graph to Assist Data Collection Bluetooth Data Interface* |
| Materials | Housing Polyamide Sensor 316SS and PEEK |
| Certification | ATEX (Pending) Housing – ATEX, FM, CSA, UL, CENELEC |

ASTM Round Robin Results (Note JF-1A Sensor)

| JF-1A-HH Average | JF-1A-HH Repeatability | JF-1A-HH Reproducibility |
|---------------------|---------------------------|-----------------------------|
| 5 | 3 | 2 |
| 25 | 3 | 3 |
| 50 | 3 | 5 |
| 100 | 3 | 9 |
| 200 | 4 | 15 |
| 500 | 4 | 30 |
| 600 | 4 | 38 |
| 800 | 5 | 49 |
| 1000 | 5 | 65 |
| 1500 | 6 | 98 |

| | |
|-------------|---------------|
| Drawing No. | Revision Date |
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