

## Fdit Fditxqzwtuec0s191

# Fdit Digital Manifold Refrigeration Gauge Instruction Manual

Model: Fditxqzwtuec0s191

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your Fdit Digital Manifold Refrigeration Gauge. This device is designed for precise measurement of refrigerant pressure and vacuum levels in various refrigeration systems. Please read this manual thoroughly before using the product.

## 2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) when working with refrigeration systems.
- Ensure the gauge is properly connected to the system before applying pressure.
- Do not exceed the maximum pressure rating of the device.
- Keep the device away from extreme temperatures, moisture, and corrosive substances.
- Do not attempt to disassemble or modify the gauge, as this may void the warranty and pose safety risks.
- Dispose of batteries according to local regulations.

## 3. PRODUCT OVERVIEW

The Fdit Digital Manifold Refrigeration Gauge is a portable and durable tool featuring a clear digital display and intuitive controls. It includes a built-in database of 82 refrigerant pressures and

corresponding temperatures, and can measure vacuum pressure, indicating the degree of vacuum as a percentage.

### 3.1 Key Features

- Low voltage battery indicator for extended battery life (up to 30 hours).
- Integrated database of 82 refrigerant pressures and temperatures.
- Vacuum pressure measurement with percentage indication.
- Convenient switching between refrigerant and vacuum measurement modes.
- Compatible with WK-6881H, 6881L, 6882, 6884 systems.

### 3.2 Components

Familiarize yourself with the main components of your digital gauge:

- **Digital Display:** Shows pressure, temperature, and vacuum readings.
- **ON/OFF Button:** Powers the device on and off.
- **ZERO Button:** Resets the pressure reading to zero.
- **UNIT Button:** Cycles through available measurement units.
- **R+ / R- Buttons:** Used for navigating refrigerant types or adjusting settings.
- **Pressure Port:** Brass fitting for connecting to refrigeration systems.
- **Battery Compartment:** Located on the back for battery installation.



Figure 1: Front view of the Fdit Digital Manifold Refrigeration Gauge, showing the digital display, ON/OFF, ZERO, UNIT, R+, and R- buttons, and the brass pressure port.



Figure 2: Back view of the Fdit Digital Manifold Refrigeration Gauge with the battery compartment cover removed, showing the battery terminals.

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment on the back of the gauge.
2. Slide the battery compartment cover off.
3. Insert the required batteries (check the battery type and polarity indicated inside the compartment).
4. Replace the battery compartment cover, ensuring it clicks securely into place.

*Note: The device features a low voltage battery indicator. Replace batteries promptly when this indicator appears to ensure accurate readings.*

### 4.2 Initial Power On

Press the **ON/OFF** button to power on the device. The display will illuminate and show initial readings. Allow a few seconds for the gauge to stabilize.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- To turn on: Press the **ON/OFF** button.
- To turn off: Press and hold the **ON/OFF** button for a few seconds until the display turns off.

### 5.2 Zeroing the Gauge

Before taking a measurement, it is recommended to zero the gauge to ensure accuracy, especially for vacuum measurements.

1. Ensure the gauge is disconnected from any pressure source and is at ambient pressure.
2. Press the **ZERO** button. The display should show '0' or a very small value.

### 5.3 Changing Measurement Units

Press the **UNIT** button repeatedly to cycle through available pressure and temperature units (e.g., kPa, psi, bar, °C, °F).

### 5.4 Measuring Refrigerant Pressure and Temperature

1. Connect the gauge's pressure port to the refrigeration system's service port using appropriate hoses and adapters.
2. Ensure the system is stable. The gauge will display the current pressure.
3. Use the **R+** and **R-** buttons to select the specific refrigerant type from the built-in database. The corresponding saturation temperature will be displayed alongside the pressure.
4. Record the readings as needed.



### Digital Pressure Gauge

The refrigerant meter and the vacuum gauge are switched to each other, which is convenient to use

Figure 3: The digital gauge connected to a refrigeration manifold, demonstrating its use for measuring pressure and temperature. The display shows current readings and refrigerant type.

### 5.5 Measuring Vacuum Pressure

The gauge can measure vacuum pressure and display it as a percentage.

1. Connect the gauge to the system where vacuum measurement is required.
2. Ensure the system is isolated and the vacuum pump is operating.
3. The gauge will display the vacuum level, often indicating the degree of vacuum as a percentage of full vacuum.
4. Monitor the vacuum level until the desired target is reached.



Can measure vacuum pressure and indicate the degree of vacuum as a percentage

Figure 4: The digital gauge displaying vacuum pressure, indicating its capability to show the degree of vacuum as a percentage.

## 6. MAINTENANCE

### 6.1 Cleaning

Wipe the gauge with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the display or casing.

### 6.2 Battery Replacement

When the low battery indicator appears, replace the batteries as described in Section 4.1. Always use fresh batteries of the specified type.

### 6.3 Storage

Store the gauge in a clean, dry place away from direct sunlight and extreme temperatures when not in use. Protect the pressure port from dust and debris.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Gauge does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate readings.	Gauge not zeroed; sensor contamination; faulty connection.	Perform zero calibration; ensure clean connections; check for leaks.
Low battery indicator constantly on.	Batteries are low.	Replace batteries.
Cannot select desired refrigerant.	Incorrect operating mode; database limit.	Ensure you are in refrigerant mode; verify if the refrigerant is in the 82-item database.

## 8. SPECIFICATIONS

- **Brand:** Fdit
- **Model Number:** Fditxqzwtuec0s191
- **Material:** Plastic
- **Battery Life:** Approximately 30 hours
- **Refrigerant Database:** 82 types
- **Compatibility:** WK-6881H, 6881L, 6882, 6884
- **Origin:** China

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the official Fdit store or contact their customer service through the details provided at the point of purchase.

*Note: The manufacturer is Fdit. For specific inquiries, please contact Fdit directly.*