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Instrukart Keller LEO2

Instrukart Keller LEO2 Digital Pressure Gauge User Manual

Model: Keller LEO2 (Range: 0 to 212 psi / 0 to 100 Bar)

INTRODUCTION

The Instrukart Keller LEO2 Digital Pressure Gauge is a battery-powered, compact, and highly accurate instrument designed for various industrial applications, servicing, calibration, and testing. It features a robust piezoresistive pressure cell that has undergone extensive pressure and temperature tests, with individual adjustments for each unit to ensure an accuracy of 0.1% FS. This specific model is designed for a pressure range of 0 to 212 psi (0 to 100 Bar). The internal battery provides up to 1,000 hours of continuous operation, making it suitable for extended use in the field.



Image: Front view of the Instrukart Keller LEO2 Digital Pressure Gauge, displaying pressure readings and control buttons.

SETUP

1. Battery Installation

The Keller LEO2 gauge operates on a 3V CR 2430 battery. To install or replace the battery:

1. Locate the battery compartment cover on the rear of the device.
2. Carefully open the cover by twisting or unlatching as indicated.

3. Insert the CR 2430 battery, ensuring the correct polarity (+/-).
4. Securely close the battery compartment cover to maintain the IP65 protection rating.



Image: Rear view of the Keller LEO2 Digital Pressure Gauge, highlighting the battery compartment for installation.

2. Pressure Connection

The gauge is equipped with a 7/16"-20 UNF pressure connection. An adapter for G 1/4" is included for common applications.

1. Ensure the pressure system is depressurized before connecting the gauge.
2. Thread the gauge directly onto the pressure source or use the provided G 1/4" adapter if necessary.
3. Tighten the connection firmly by hand, then use a wrench for a final snug fit, avoiding overtightening.
4. Check for any leaks after pressurizing the system.



Image: Side view of the Keller LEO2 Digital Pressure Gauge, showing the pressure connection point.

OPERATING INSTRUCTIONS

1. Power On/Off

Press and hold the **ENTER** button to power on the device. The gauge will automatically power off after a period of inactivity to conserve battery life. To manually power off, press and hold the **ENTER** button again.

2. Display Readings

The LEO2 features a dual display:

- The **top display** indicates the current, actual pressure reading.
- The **bottom display** shows either the maximum (MAX) or minimum (MIN) pressure recorded since the last reset.

The pressure is measured and updated twice per second.

3. Navigating Display Modes (MAX/MIN)

Use the **SELECT** button to toggle between displaying the MAX and MIN pressure values on the bottom display.

4. Resetting MAX/MIN Values

To reset the recorded maximum and minimum pressure values:

1. Ensure the gauge is powered on.
2. Press and hold the **SELECT** button until the MAX/MIN values on the bottom display reset to the current pressure.



Image: Angled view of the Keller LEO2 Digital Pressure Gauge, showing the clear digital display with current and recorded pressure values.

MAINTENANCE

1. Battery Replacement

When the battery indicator shows low power or the display becomes dim, replace the 3V CR 2430 battery as described in the Setup section. Always use a fresh, high-quality battery for optimal performance and to ensure the stated 1000-hour operating life.

2. Cleaning

Clean the exterior of the gauge with a soft, damp cloth. Do not use abrasive cleaners, solvents, or immerse the device in liquids. Ensure the pressure connection port is free from debris before and after use.

3. Storage

Store the Keller LEO2 in a dry, cool environment, away from direct sunlight and extreme temperatures. If storing for an extended period, it is recommended to remove the battery to prevent leakage. The gauge comes with a protective case for safe storage and transport.



Image: The Instrukart Keller LEO2 Digital Pressure Gauge stored securely within its protective carrying case.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Gauge does not power on	Dead or incorrectly installed battery	Replace battery (CR 2430) and ensure correct polarity.
Inaccurate pressure readings	Gauge not properly connected; Sensor contamination; Calibration required	Check pressure connection for leaks. Ensure sensor port is clean. If issues persist, contact support for calibration.
Display is dim or flickering	Low battery	Replace the battery.
MAX/MIN values not resetting	Incorrect button press sequence	Press and hold the SELECT button until values reset.

TECHNICAL SPECIFICATIONS

- **Pressure Range:** 0 to 212 psi (0 to 100 Bar)
- **Over Pressure:** 145.0 psi (10 Bar)
- **Resolution:** 0.014 psi (1 mbar)
- **Accuracy:** < 0.1 %FS
- **Power Supply:** 3V battery, Type CR 2430
- **Battery Life:** 1000 hours continuous operation
- **Operating Temperature:** -4 to 158°F (-20 to 70 °C) for electronics; 32 to 122 °F (0 to 50 °C) for display
- **Dimensions (Diameter x Height x Depth):** 59 x 95 x 32 mm
- **Weight:** 0.27 lbs (125 g)
- **Protection Rating:** IP 65
- **Pressure Connection:** 7/16"-20 UNF (Adapter G 1/4" included)
- **Material:** Alloy Steel
- **Model Number:** IK-KE-o2

WARRANTY INFORMATION

For detailed warranty information regarding your Instrukart Keller LEO2 Digital Pressure Gauge, please refer to the documentation provided at the time of purchase or visit the official Instrukart website. Warranty terms typically cover manufacturing defects under normal use conditions.

CUSTOMER SUPPORT

If you require further assistance, have questions about the operation, or need technical support for your Instrukart Keller LEO2 Digital Pressure Gauge, please contact Instrukart customer service or your authorized local distributor. Contact details can typically be found on the Instrukart official website or your purchase invoice.