The illustration shows a digital remote pressure/vacuum gauge system. On the left, a black cable with a braided section and a metal fitting is shown. In the center, a coiled black cable connects to a handheld device on the right. The device has a rectangular display screen at the top and a control panel below it with five buttons. The buttons are labeled: 'UNITS', 'ON/OFF', 'DISPLAY MODE', 'PSI/inHg/ BAR/KPA', and 'NORMAL/ MIN/MAX CLEAR'. A 'LIGHT' indicator is also present on the panel. The entire scene is enclosed in a black rectangular border.

Digital Remote Pressure/Vacuum Gauge User Guide

WAEKON[®]
a division of Hickok

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Safety Information

Before using this equipment, carefully read, understand and follow instructions and safety messages on equipment and in this guide.

The guide cannot anticipate or provide advice and cautions for all situations encountered by technicians. With this in mind, always follow and refer to the manuals provided by the manufacturer or the vehicle or equipment being tested or used for all information and testing procedures whenever diagnosing, repairing or operating such vehicle or equipment.

Failure to follow the instructions, cautions and warnings provided here as well as those provided by the vehicle and equipment manufacturers can result in fire, explosion, bodily injury and property damage.

In addition to the information listed below, additional warnings and cautions are listed throughout the guide. Please read them carefully.

Safety Information

⚠ Fuel vapors are toxic and explosive, which can cause severe injury or death.

- Use proper ventilation to avoid breathing fuel vapors.
- If the skin is directly exposed, wash the area immediately and change any clothes that have become wet with fuel.
- Always wear approved safety glasses when testing. Should fuel get into eyes, flush eyes immediately with water and consult your physician.

⚠ Vehicles emit flammable vapors which can ignite.

- Keep flames, sparks, cigarettes and other ignition sources away from the vehicle at all times.
- Use a dry chemical extinguisher to fight flames (preferably one marked ABC, though BC is acceptable). A foam extinguisher is acceptable only if it is ARF grade, which is resistant to alcohol.

Safety Information

⚠ Pressure reading of any system should only be performed by properly trained technicians.

- To avoid injury or damage, always relieve system pressure prior to connecting or disconnecting the tester.
- When connecting the tester to adapters and hose fittings, do not over tighten the connection. Moderate pressure should be sufficient to prevent leaks.
- To avoid injury or damage, never over pressurize the tester.
- Never attempt to open the transducer assembly. Doing so will damage the electrical connections and void the warranty.

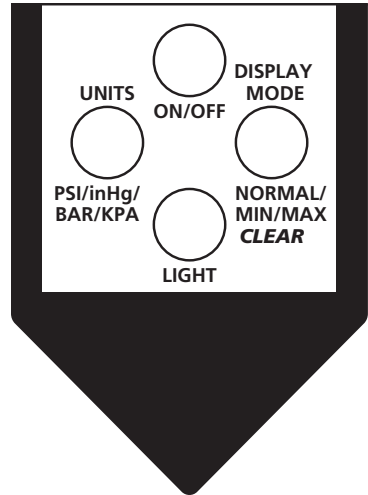
Turning the Gauge On and OFF

Press and release the **ON/OFF** button to power the unit on or off.

- The gauge powers up in the same units of measurement last selected.
- The gauge automatically powers off after 2 minutes if the pressure is less than 0.7 PSI (or equivalent) and is not changing. Prior to powering off, the gauge emits an audible beep.

Turning the LCD Backlight On

- Press and hold the **LIGHT** button to illuminate the display
- To prolong battery life, use the backlight sparingly.



Instructions

Setting the Gauge to Zero

⚠ Important!

Failure to complete this procedure can result in inaccurate readings.

The gauge must be set to zero for the following situations:

- Before you begin using the digital pressure gauge for the first time.
- The gauge does not read zero with no pressure or vacuum applied.
- After you replace the batteries.

Procedure:

1. Make sure the gauge is not connected to a pressure or vacuum source while performing this procedure.
2. With the gauge turned OFF, press and hold down the **DISPLAY MODE** button.
3. Press and release the **ON/OFF** button.
4. When CAL is displayed, release the **DISPLAY MODE** button. The gauge displays zeroes (for the type of mode selected) and is ready to use.

Using the DISPLAY MODE Function

In certain applications, it may be necessary to view only the highest or lowest values. Using the DISPLAY MODE function provides a way to select these readings.

To view the highest, lowest, or normal readings:

1. While taking a pressure reading, press and release the **DISPLAY MODE** button to toggle the display between the highest only, lowest only, or normal readings. The gauge beeps twice to verify the mode change.

NORMAL—displays the current (real time measurement)

MIN—only displays the lowest value read (gauge beeps once when the value is updated)

MAX—only displays the highest value read (gauge beeps once when the value is updated)

Instructions

To clear MIN/MAX:

The MIN/MAX is automatically cleared (reset) when you turn it off. You can also clear the MIN/MAX by doing the following when the gauge is on:

1. Press and hold the **DISPLAY MODE** button for three seconds during a MIN/MAX measurement.
 - Gauge beeps three times to verify clear

Changing the Displayed Units of Measure

The digital pressure gauge can display readings in PSI, BAR, KPA, or inHg. To change the displayed units of measurements:

1. With the gauge powered on, press and release the **UNITS** button until the desired units of measure is displayed.
 - The gauge beeps to verify the change.

Battery Replacement

Replace the battery when the low battery symbol appears in the display (except when setting the gauge to zero). Accuracy of the gauge may be affected during low battery conditions, therefore it is important to replace the batteries.

The gauge uses two CR2032 3 volt lithium coin cell batteries.

To replace the batteries:

1. With the gauge powered off, remove the protective boot and rear cover.
2. Slide the old batteries out from the battery clips.
3. With the positive (+) side UP, install the new batteries.
4. Replace the rear cover and protective boot.
5. Set the gauge to zero (see *Instructions*).

Specifications

Working Pressure

PSI minimum: -14.7 (-29.9 inHg) PSI maximum: See gauge face for maximum pressure rating.

Accuracy

±1% of full scale over the full working pressure range

Operating Temperature Range

Gauge: 32°F to 158°F (0°C to 70°C)

LCD Screen: At low temperatures the LCD screen may react slowly to rapidly changing values or segments may be missing. The low battery indicator may be displayed or the gauge may not power up. To remedy, warm the gauge to above 32°F for ten minutes before using.

Specifications

Cable Length: 12-feet

Batteries

Type: CR2032, 3 volt lithium coin cell

Quantity: 2

Battery Life (typical): 50 hours of continuous use, less if the backlight is used frequently.

Compatibility: Gasoline, oil, ethanol (E85 and E100)

Warranty

Subject to the conditions that follow and are noted below, this product is warranted to be free from defects in material and workmanship, under proper use and in accordance with the manufacturer's written recommendation and specifications, for a period designated below on all products:

- For all electronic parts and for the FPT series of evaporative equipment (both mechanical and electronic parts), a one-year limited warranty is in effect from the time of the purchase of the new product by the initial end user.
- For all hard parts (including mechanical and machined parts), other than listed in the preceding paragraph, a lifetime limited warranty is in effect from the time of the purchase of the new product by the initial end user.

The manufacturer's obligation under this warranty is limited to unaltered products returned to the manufacturer by the initial end user of the new products. Therefore, this warranty does not cover any products resold by the end user to third parties, nor any reconditioned products sold as such, by the manufacturer. The sole remedy for any such defect shall be the repair, or replacement, of the product at the sole discretion of the manufacturer. This warranty does not cover expendable parts, such as batteries, nor does it cover shipping or handling. In addition, manufacturer is not liable for any loss or damage to product during shipping.

In the event it is determined that the product has been tampered with, or altered in any way, this warranty is void and all claims against the product will not be honored. All warranty claims must be submitted as outlined by the manufacturer and shall be processed in accordance with the manufacturer's established warranty claim procedures. These procedures include provisions that proof of purchase must be established (by either warranty card from the seller or by point of purchase

Warranty

receipt) and that the manufacturer will make every attempt to return ship the product within one business day from receipt of the returned product, freight prepaid.

In addition, all maintenance procedures, as outlined by the product manuals, should be followed for the warranty to be kept in force. Should the product not be used in accordance with procedures as specified, or if the product otherwise fails outside of the warranty, the manufacturer reserves the right to make such judgment and the party returning the product will be notified that written notification will be necessary to repair the product at a cost which the manufacturer deems as reasonable. The product will then be shipped back to the customer, COD; or as the manufacturer deems appropriate.

This is the only authorized manufacturer's warranty and is in lieu of all other expressed, or implied, warranties or representations, including but not limited to any implied warranties of merchantability or fitness or any other obligations on the part of the manufacturer. In no event will the manufacturer be liable for business interruptions, loss of profit, personal injury, costs of delays, or any special, indirect, incidental or consequential damages, costs or losses.

(See **Contact information** for telephone and fax numbers and shipping information.)

Contact Information

If you have any questions about our products including technical assistance, call our customer care department during standard business hours EST. If a customer care representative directs you to return any equipment, be sure to include these items:

- a written description of the problem;
- the name and telephone number of your contact person;
- your shipping address, and
- our return authorization number (from customer care).

Customer care
& tech support:

800/342-5080

Service & repair center:

662/453-6212

Fax:

216/761-9879

E-mail:

support@hickok-inc.com
repaircenter@hickok-inc.com

Service address:

Hickok Inc.
Automotive Group
1716 Carrollton Avenue
Dock E
Greenwood, MS 38930

Don't forget to check out other testers, equipment and parts at our websites. Access our Quick-n-E-Z Parts and Service from any of these sites 24/7 for ordering parts or service:

www.hickok-inc.com

www.quick-n-ezparts.com

www.waekon.com

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