



Wireless Micron Gauge User's Guide

Specifications

Range: 0 – 25,000 Microns, 25 Torr

3330 Pa, 33.3 mBar, 25 mmHg

Accuracy: 5% of Reading +/- 5 Microns Resolution: 1 Micron (< 1000 Microns),

0.1 Pa, 0.001 mBar/mmHg/Torr

Warm-up: Instant Response: Instant

Power: 2 'AAA' Alkaline Batteries

Lithium Recommended for Low Temperature Operation.

Battery Life: Up to 100 Hours (Bluetooth

Off)

Op. Temp. -10°F - 122°F (-12°C - 50°C)

Fitting: ¼" MFL Anodized Aluminum

Weight: 2.7 oz. (77g) with Batteries

Dimensions: 4.3" x 1.3" x 1"

(11cm x 3.3cm x 2.5cm)

Safe Over-

Pressure:

Wireless

Range: Up to 100m Line-of-Site

500 PSI

Features

- Hi-Visibility Back-Lit Display
- · Microns, Pascals, Millibar, mmHg, Torr
- 0 25,000 Micron Range with 1 Micron Resolution
- Automatic Oil Sensor
- Wide Operating Temperature Range
- · Long Battery Life
- · Calibration Self-Test
- · Calibratable No Reference Needed
- Ideal for HVAC, Industrial and Scientific

Wireless Operation

Double click less to turn the radio on and off. When turned on, the local convenience icon will flash in the display. This is an indication that the radio is on and waiting for a connection from a mobile app. When a connection is made by a mobile app, the convenience icon will illuminate solid (not flashing).

For wireless operating instructions, please refer to the instructions and help material included with the iOS or Android app.

Quick Start

- Install 2 'AAA' batteries.
- Press and hold O for 1 second.
- Press and hold [®] to change the vacuum measurement units
- Using the supplied coupler, connect the μBluVac+ to an unused service port, core removal tool, or hose attached to the system.
- 5. Start the vacuum pump. Display will show vacuum pressure in selected
- 6. Press and hold **O** for 1 second to turn the power off.

WARNING: To avoid damage, only hand-tighten sensor connection. If greater torque is required, support the sensor housing with a ³/₄" wrench.

Display



CAL Indicates Calibration Self-Test and Field Calibration Mode

Torr Units Selected

Pa Pascal Units Selected

mBar Millibar Units Selected

Microns Units Selected

mmHg Units Selected

Battery Level Indicator

Wireless Operation Indicator

Hi-Pressure Indication

The µBluVac+ displays "HI-P" when the vacuum pressure exceeds 25,000 Microns (3330 Pa, 33.3 mBar, 25 mmHg/Torr):



Backlight

Press and release \circlearrowleft to toggle the backlight on and off. To conserve battery power, the backlight will automatically turn itself off after one minute.

Power Management

Battery Level Indicator

Four bars in the battery level indicator indicate full battery strength. The $\mu BluVac+$ will turn itself off when the batteries are fully consumed.

Sleep Mode

To conserve battery life, the µBluVac+ enters Sleep Mode after one minute in HI-P (unless wireless operation is active and connected):



Full power operation will resume when a button is pressed, or if the vacuum pressure is reduced below 25,000 microns.

Auto Power-Off

The μ BluVac+ powers off completely after one hour in *Sleep Mode*.

Battery Installation

- Remove battery cover from the back of the instrument.
- Install 2 'AAA' Alkaline batteries observing polarity.
- 3. Replace battery cover.

Range and Resolution

The µBluVac+ has a broad vacuum measurement range and very high resolution:

Units	Range	Resolution	
Pa	0 – 3,330	10 1 0.1	(@ > 1,000) (@ > 100) (@ < 100)
mBar	0 – 33.3	0.1 0.01 0.001	(@ > 10) (@ > 1) (@ < 1)
mmHg Torr	0 – 25	0.1 0.01 0.001	(@ > 10) (@ > 1) (@ < 1)
Microns	0 – 25,000	100 10 1	(@ > 10,000) (@ > 1,000) (@ < 1,000)

Oil Sensor & Cleaning

If oil or other contamination is inadvertently drawn into the sensor, the display will show:



To clean the sensor:

- 1. Turn the μBluVac+ power on.
- 2. Shake out any excess oil.
- 3. Using an eye dropper or syringe, fill the sensor port hole with isopropyl alcohol. **Do not** insert any object into the port.
- 4. Shake out the alcohol.

Maintenance

- 5. Repeat steps (3) and (4) three times.
- 6. Thoroughly dry the sensor by pulling a vacuum for about 1 minute, or allow at least 1 hour to air dry.
- 7. If OIL still shows on the display, perform a freezer calibration

The µBluVac+ should provide many years of

not in use, the dust cap should remain in

enclosure with a damp (not wet) rag. Mild

Product Registration

To register your µBluVac+ for warranty

products, please visit our website at:

www.accutools.com.

purposes, and for additional information

regarding µBluVac+ and other AccuTools

service with no maintenance required. When

place over the sensor port. Clean the plastic

detergent is acceptable, but use no solvents.

Calibration Self-Test

To ensure highest accuracy, periodically perform a calibration self-test:

- 1. Turn the µBluVac+ power off.
- 2. Expose the µBluVac+ to atmospheric
- 3. Press and continue to hold **①**. After 5 seconds, the display will show:



if the unit is in calibration, or:



if calibration is required.

Contains Transmitter Module FCC ID: T9JRN4020

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- · Consult the dealer or an experienced radio/TV technician for help

Contains transmitter module IC: 6514A-RN4020

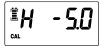
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre fonctionnement.

Calibration

To calibrate the µBluVac+:

- 1. Ensure the sensor is clean and dry.
- 2. Install fresh batteries, place dust cap over vacuum port, and turn the power off.
- 3. Insert the unit into a small Ziploc® (resealable zipper bag) and seal.
- 4. Place the bagged unit into a freezer with a temperature of less than -5°C (23°F).
- 5. After 45 minutes, remove the unit from the freezer (do not remove unit from bag).
- 6. While holding 81, press and continue to hold **O**. After 5 seconds, the display will show 'H' and the sensor temperature. For example:



7. Place the unit in an undisturbed location with a room temperature of at least 23°C (74°F).

technical support.

The µBluVac+ can operate accurately at temperatures below freezing, though battery life may not be optimum. Use Lithium 'AAA' batteries for best battery life at low temperatures.

Calibration (cont'd)

8. Allow the unit to warm slowly to 20°C.

9. When complete, the display will show:

Note: The sensor temperature in step (6)

must be less than -2°C (28°F) for calibration

to start. If ERROR appears on the display.

perform the complete calibration procedure

again, or, contact Core Enterprises, Inc. for

Low Temperature Operation

ONE YEAR LIMITED WARRANTY

Core Enterprises, Inc. warrants that this AccuTools® product conforms to Core Enterprises, Inc. published specifications and will be free from defects in material and workmanship. The duration is for a period of one year from the date of purchase. Core Enterprises, Inc., at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. This is your sole warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. Core Enterprises, Inc. dealers, service centers, or retail stores selling Core Enterprises, Inc. products do not have the right to alter, modify or any way change the terms and conditions of this warranty

This warranty does not cover batteries or any other normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, damage caused by use of the product for purposes other than those for which was designed, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than Core Enterprises, Inc. or an authorized Core Enterprises, Inc. service center. Further, the warranty does not cover: Acts of God, such as fire, flood, lightning, hurricanes and tornadoes.

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Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not

apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or jurisdiction to jurisdiction

How to Obtain Warranty and Repair Service

To obtain warranty or repair service, please call (954) 227-0781 to obtain a RMA number.

obtain a RWA full service, a legible copy of the original receipt must be sent along with the RMA Form. Any package received without this RMA number will be refused. The returned product must be properly packaged and insured against shipping damage. Any shipping damage resulting from improper packaging shall be the responsibility of the Purchaser. The repaired or replaced product will be returned to Purchaser, freight prepaid via UPS ground only. Repaired or replaced units carry an additional 90 days warranty



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