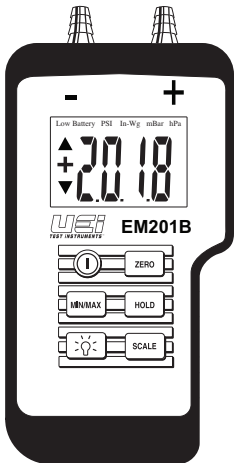


## EM201B



Electronic Manometer

**RoHS**  
Compliant

# TABLE OF CONTENTS

Safety Rules .....	3
Features .....	4
Operating Instructions .....	5
EM201B Specifications .....	8
Pressure Conversion Chart .....	9
Warranty.....	11

## INTRODUCTION

The EM201B provides a simple, time-saving alternative to U-tube pressure measurements. Use the UEi EM201B to measure gas supply and draft pressures in residential or light commercial properties. The differential mode provides a convenient method to measure pressure drops.

# SAFETY RULES

## **WARNING!**

Before every use, check to be sure the meter and its tubing are free from breaks or blockage. While using the meter, if you suspect gas is leaking, or if you can smell gas, close off the gas supply and ventilate the occupied space. Identify and repair the source of the leak before continuing with the test.

In the interest of safety, this instrument should only be used by trained, competent professionals who know the hazards and consider the risks of working on and with industrial equipment.

The meter does not measure water pressures; under these conditions they will fail. Do not exceed 10 PSI input pressure

# FEATURES

## EM201B

- Dual input differential measurement to  $\pm 60$  In-WG
- Measures in: In - WG, mBar, PSI and Pa (auto range to hPa)
- Ruggedized, including rubber boot with integral magnet
- Auto power-off after 60 minutes
- Dynamic Min/Max value capture
- Data hold
- Back-lit display
- 3 Year limited warranty

# OPERATING INSTRUCTIONS

**To turn the meter on press the power button for 2 seconds.**

## **1. Zero the meter**

Prior to use, the meter must be zeroed. To do this, ensure the meter is in a non-pressurized area, and press and hold the 'ZERO' button for approximately four seconds. The display will show '888' to indicate that the zero function has occurred.

## **2. Measure Pressure**

Connect the flexible tube between the meter and the pressure source.

When performing single input measurement use the positive input. Positive pressures will display as positive results, and negative pressure will display a negative result.

## **Measure Pressure (Cont.)**

To perform pressure with respect to a different area, connect a tube to the positive port, place the end of this tube to the area to be measured and leave the negative port open. Results will show the pressure in the target area with respect to the area the meter is located

Use both the positive and negative ports to perform differential measurements. Place the positive port in the area expected to have a higher pressure, and the negative port in the area of lower expected pressure.

## **3. SCALE**

To select the desired units press "SCALE". Repeated presses of this button will scroll through PSI (pounds per square inch), In-Wg (Inches water gauge, or water scale), mBar (millibar), or Pa (Pascals). On the Pascal scale the meter will automatically switch to hectopascals (hPa) when the reading exceeds 1000 pascals. 1000 pascals is equal to 10 hectopascals.


#### **4. DYNAMIC MIN/MAX**

The EM201B will capture values for both the minimum and maximum pressure measured. To reset press MIN/MAX until the display shows “- CLr”. This will reset the values stored for minimum and maximum measured without the need to disconnect and zero the pressure measurement. Captured values can be displayed in any available scale.

#### **5. HOLD**

The EM201B has a display hold feature. Press this during reading to freeze the display. Press again to return to actual measurement.

#### **6. BACKLIGHT**

The EM201B has a backlit display. Press  to turn on or off the back light feature. The back light will stay on until the button is pressed again (NOTE: using the back light significantly reduced battery life)

#### **7. OVER RANGE (OL)**

If the input exceeds the meter range “OL” will be displayed. Immediately disconnect from the pressure supply safely to reduce chances of damage to the instrument.

# SPECIFICATIONS

## EM201B

Measurement range:	-60 to +60 In-WG
Minimum pressure displayed:	0.001 In-WG
Accuracy:	$\pm 0.03$ "WC from 0 to 3"WC $\pm 1$ % rdg from 3"WC to 60"WC
Resolution:	0.001" (-9.999 to +9.999 In-WG) 0.01" (< -10,> +10 In-WG)
Operating range:	0 - 40°C, 10 - 90% RH non condensing
Battery life:	400 hours min with alkaline battery



# PRESSURE CONVERSIONS

<b>Multiply</b>	<b>By</b>	<b>To Get</b>
In - WG	1.868	mmHG
In - WG	0.074	in HG
In - WG	0.249	kPa
In - WG	249.1	Pascals
In - WG	2.491	mBar
In - WG	0.036	PSI
In - WG	25.40	mmH2O

NOTE: In - WG is an abbreviation for inches water gauge. This is also stated as In - WC (Inches water column) or In - H2O. ("wc, "WG, "H2O.)



# WARRANTY

The EM201B is warranted to be free from defects in materials and workmanship for a period of three years from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss.

A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

UEi Service Department  
8760 E 33rd, Indianapolis, IN 46226  
1.800.547.5740 • FAX: (317) 897-6261 • Email: [info@ueitest.com](mailto:info@ueitest.com)

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

**Call our UEi sales office  
to receive a FREE catalog  
of our complete line of  
testing equipment.**

**1.800.547.5740**

**Visit our web site:**

**www.ueitest.com  
and email: info@ueitest.com**



**www.ueitest.com • Email: info@ueitest.com  
Canada: (604) 278-4511 • FAX (905) 238-6760**