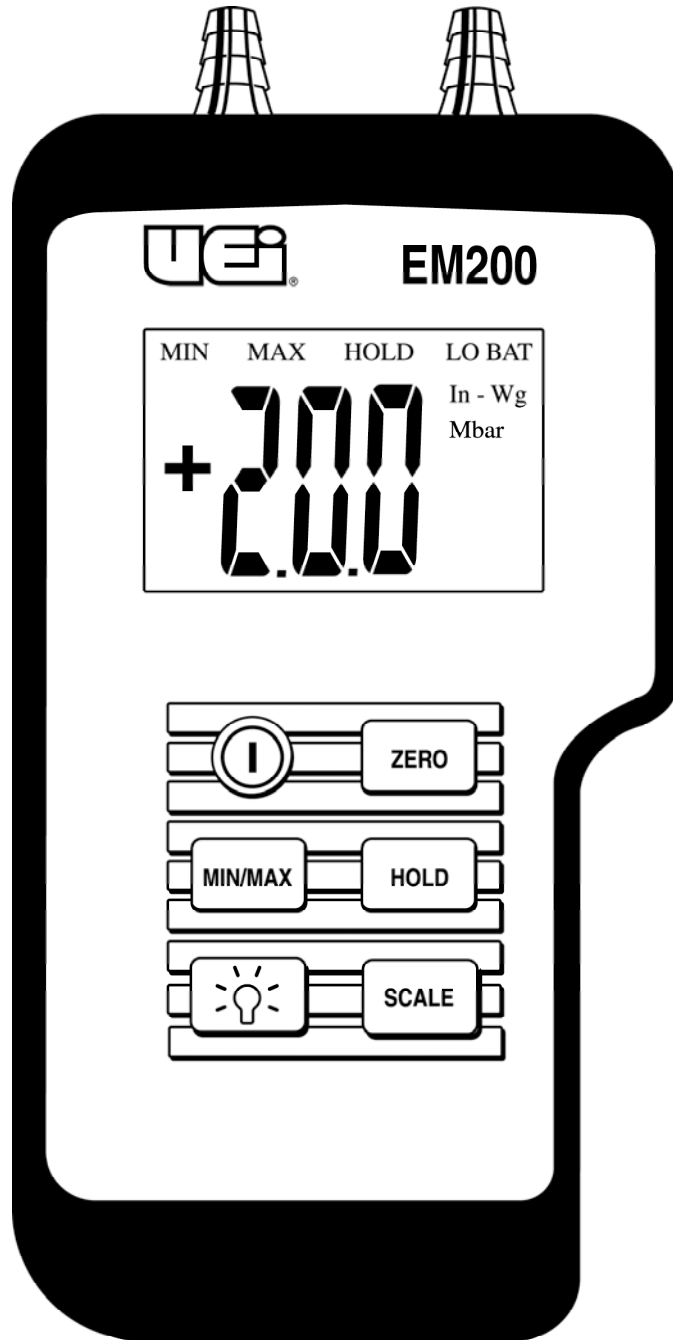




**INSTRUCTIONAL MANUAL**

# EM150/EM200

**Electronic Manometer**



**1-800-547-5740 • Fax: (503) 643-6322**  
**www.ueitest.com • email: info@ueitest.com**

## Introduction

The EM 150 and EM200 provide a simple, timesaving alternative to U-tube pressure measurements. Use the UEi EM150 and EM 200 to measure gas supply and draft pressures in residential or light commercial properties. The EM200 differential mode provides a convenient method to measure pressure drops.

### Features include

#### EM150

- Single input to measure positive and negative pressure to  $\pm 20''$  wg
- Ruggedized, including rubber boot with integral magnet
- Simple two-button operation
- Measures in inches water gauge
- Auto power-off after 5 minutes of no activity
- One year limited warranty

#### EM200

- Dual input differential measurement to  $\pm 60''$  wg or  $\pm 150$  mBar
- Ruggedized, including rubber boot with integral magnet
- Measures in inches water gauge and mBar
- Auto power-off after 5 minutes of no activity
- MIN/MAX value capture
- Data Hold
- Backlit display
- One year limited warranty

## Safety Notes











Before using this meter, read all safety information carefully. In this manual the word "**WARNING**" is used to indicate conditions or actions that may pose physical hazards to the user. The word "**CAUTION**" is used to indicate conditions or actions that may damage this instrument.

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.

These meters do not measure water pressure; under these conditions they will fail. **DO NOT** exceed 10 PSI input pressure.

## International Symbols

 Dangerous Voltage	 Ground
 AC Alternating Current	 Warning or Caution
 DC Direct Current	 Double Insulation (Protection Class II)
 Either AC or DC	 Fuse
 Not Applicable to Identified Model	 Battery

## Operating Instructions

### 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.

### Measure pressure

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

The EM200's positive input is to the right when looking at the front of the instrument. Applying a positive pressure to this port will display a positive reading. The input to the left is the negative port. Applying a positive pressure here will display a negative reading. Use either input to measure a single source by venting the unused input to atmosphere. The instrument will continually provide a differential reading of the two inputs.


### Scale (EM200 only)

To select mBar press the "**SCALE**" button on the EM200. Press "**SCALE**" again to return to inches of water gauge.

### MIN/MAX (EM200 only)

The EM200 will capture values for both the minimum and maximum values read. To reset zero the instrument or simply power the meter off, then back on. Captured values can be displayed in either inches water gauge or mBar.

### Backlight (EM200 only)

The EM200 has a backlit display. Press "" to turn on or off the back light feature.

### Over-range

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

EM150	
Measurement:	-20" to +20" WG
Minimum readable pressure:	0.05" WG
Accuracy:	±1.5% FS
Resolution:	0.05" -9.95" to +9.95" WG 0.1" <-10", >+10" WG
Operating range:	0 - 40°C, 10 - 90% RH non condensing
Battery life:	50 hours min with alkaline battery

EM200	
Measurement:	-60" to +60" WG
Minimum readable pressure:	0.05" WG
Accuracy:	±1.5% FS
Resolution:	0.05" -9.99" to +9.99" WG 0.1" <-10", >+10" WG
Operating range:	0 - 40°C, 10 - 90% RH non condensing
Battery life:	40 hours min with alkaline battery

## Pressure conversions

Multiply	By	To Get
In. of H2O	1.868	mmHG
In. of H2O	0.074	in HG
In. of H2O	0.249	kPa
In. of H2O	249.1	Pascals
In. of H2O	2.491	mBar
In. of H2O	0.036	PSI
In. of H2O	25.40	mmH2O

# **EM150/EM200**

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## **Electronic Manometer**

### **Limited Warranty**

The EM150/EM200 is warranted to be free from defects in materials and workmanship for a period of one year 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:

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

