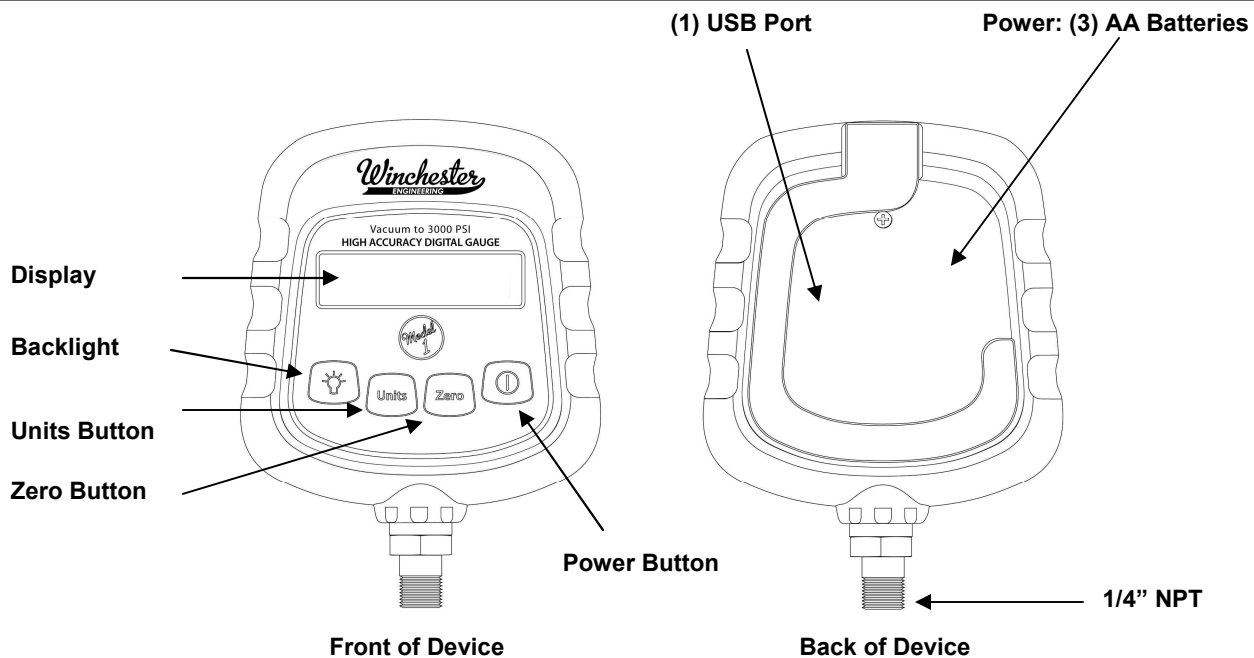




## Model 1 Auto-Ranging Digital Gauge™

### Operating Instructions



The Model 1 Auto-Ranging Digital Gauge™ is a breakthrough in technology that Winchester Engineering, a subsidiary of East Hills Instruments, is proud to present. The Model 1 eliminates the need to use several gauges of different ranges to achieve and maintain high accuracy. The Model 1 uses patent-pending technology to span the range from absolute vacuum to 3,000 psi while maintaining 0.1% of reading accuracy across the entire span.

#### SPECIFICATIONS

**Output Ranges:** -28 Hg – 3,000 psi (0 to 208 bar)  
**Temperature Ranges:** 0°C to 40°C (0°F to 104°F)  
**Units:** psi, kPa, mmHg, inHg, inH2O, mmH2O, kg/cm<sup>2</sup>, BarsAbsolute, psiAbsolute, mBarAbsolute, mmHgAbsolute, Bar, mBar  
**Process Connection:** 1/4" NPT Male  
**Materials:** Stainless steel valve, rubber housing, electronic board, AA batteries  
**Weight:** 3 lbs (1.36 kg)

#### GUIDELINES FOR USE

- The Model 1 is shipped with three (3) AA batteries already installed, ready to use.
- If ordered as part of the MVP-600WIN or M-10WIN packages, the Model 1 comes installed on the respective hand pump to be used as a pressure source. Both the pump and gauge are ready for use out of the box, and can be removed from one another if needed.
- The Model 1 has been compensated for temperatures ranging between 0°C and 40°C (0°F and 104°F).
- As the Model 1 climbs in pressure, the display automatically reduces the number of decimal places shown, starting with the thousandths (0.000) at the lowest of pressures, then the hundredths (100.00), and lastly the tenths (1,000.0).
- **For Absolute Pressure Measurements, set Units to Absolute and reboot Gauge**

## OPERATION

1. Press the power button. As it is loading up it will display the software version, the serial number of the gauge, the battery power level, and the calibration due date.
2. Press and hold the "Zero" button for one second to set the gauge to zero (It is normal for the thousandths digit to rise and fall slightly after this is done).
3. Use thread tape seal on the 1/4" NPT threads prior to mounting the gauge onto a pressure source.
4. After mounting on a pressure source, bring the pressure up to the desired level and wait a moment for it to stabilize before taking readings.
5. If different units are desired, press the "Units" button to cycle through the choices (See page one).
6. The USB port on the back can be used to install software updates as they become available.
7. The USB port on the back can also be used for logging data on readings collected.

## MAINTENANCE

No routine maintenance is required. A periodic check of system calibration is recommended, however. The Model 1 is not field serviceable and should be returned to East Hills Instruments if repair is needed (A field repair should not be attempted and may void the warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization (RGA) number before shipping.

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## WARRANTY/DISCLAIMER

East Hills Instruments, Inc. warrants this unit to be free of defects in materials and workmanship for a period of twenty-five months from date of purchase. East Hills Instruments' warranty adds an additional one month to the normal twenty-four month product warranty to cover handling and shipping time. This insures that all customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. East Hills Instruments' Customer Service Department will issue a return goods authorization (RGA) number immediately upon phone or written request. If the product is found to be defective or upon examination by the Repair Department, the product will be repaired or replaced at no charge. This warranty also includes damage that may have occurred in the regular activities that the pump is designed for (Including accidental dropping of the product, as it is designed to withstand considerable damage). Unauthorized repair attempts or modification of the product may result in voiding of the warranty, and should be avoided.

## RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the East Hills Instruments Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO EAST HILLS INSTRUMENTS, PURCHASER MUST OBTAIN A RETURN GOODS AUTHORIZATION (RGA) NUMBER FROM EAST HILLS INSTRUMENTS' CUSTOMER SERVICE DEPARTMENT IN ORDER TO AVOID PROCESSING DELAYS. The assigned RGA number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for any shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting East Hills Instruments:

1. Purchase Order number under which the product was PURCHASED
2. Model and serial number of the product under warranty; and
3. Repair instructions and/or specific problems relative to the product.

FOR NON-WARRANTY REPAIRS, have the following information available BEFORE contacting East Hills Instruments for current repair charges:

1. Purchase Order number to cover the COST of the repair.
2. Model and serial number of the product; and
3. Repair instructions and/or specific problems relative to the product.



**Address:** East Hills Instruments  
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## CONTACT INFORMATION

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