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 - > ULTECHNOVO U-Shaped Stainless Steel Pressure Gauge 0-3000pa Manometer User Manual

ULTECHNOVO ZA5302QT506TBE

ULTECHNOVO U-Shaped Stainless Steel Pressure Gauge

Model: ZA5302QT506TBE

1. INTRODUCTION

The ULTECHNOVO U-Shaped Stainless Steel Pressure Gauge is a precision instrument designed for accurate measurement of pressure differences in gas pipelines and other industrial systems. Constructed from robust stainless steel, this manometer offers durability and reliable readings within a 0-3000 Pa range. This manual provides essential information for the safe and effective setup, operation, and maintenance of your pressure gauge.

2. PRODUCT OVERVIEW

The U-shaped pressure gauge utilizes a liquid column to visually indicate pressure differentials. Its design emphasizes user-friendliness, portability, and versatility for various testing needs.



Figure 2.1: Overall view of the ULTECHNOVO U-Shaped Pressure Gauge, showing its dimensions (approximately 15.13 inches / 38.5 cm in length and 2.75 inches / 7 cm in width).



Figure 2.2: Detailed views emphasizing the compact and portable design of the gauge, making it suitable for transport and use in various locations.

3. SETUP

1. **Unpacking:** Carefully remove the pressure gauge from its packaging. Inspect for any visible damage during transit.
2. **Placement:** Position the gauge on a stable, level surface or mount it vertically using appropriate fixtures. Ensuring the gauge is level is crucial for accurate readings.
3. **Connection:** Connect the appropriate tubing from the system to be measured to the inlet ports at the top of the U-shaped gauge. Ensure all connections are secure and airtight to prevent leaks that could affect accuracy.
4. **Liquid Level:** Verify that the liquid column within the U-tube is at the zero mark or a known reference point before applying pressure.

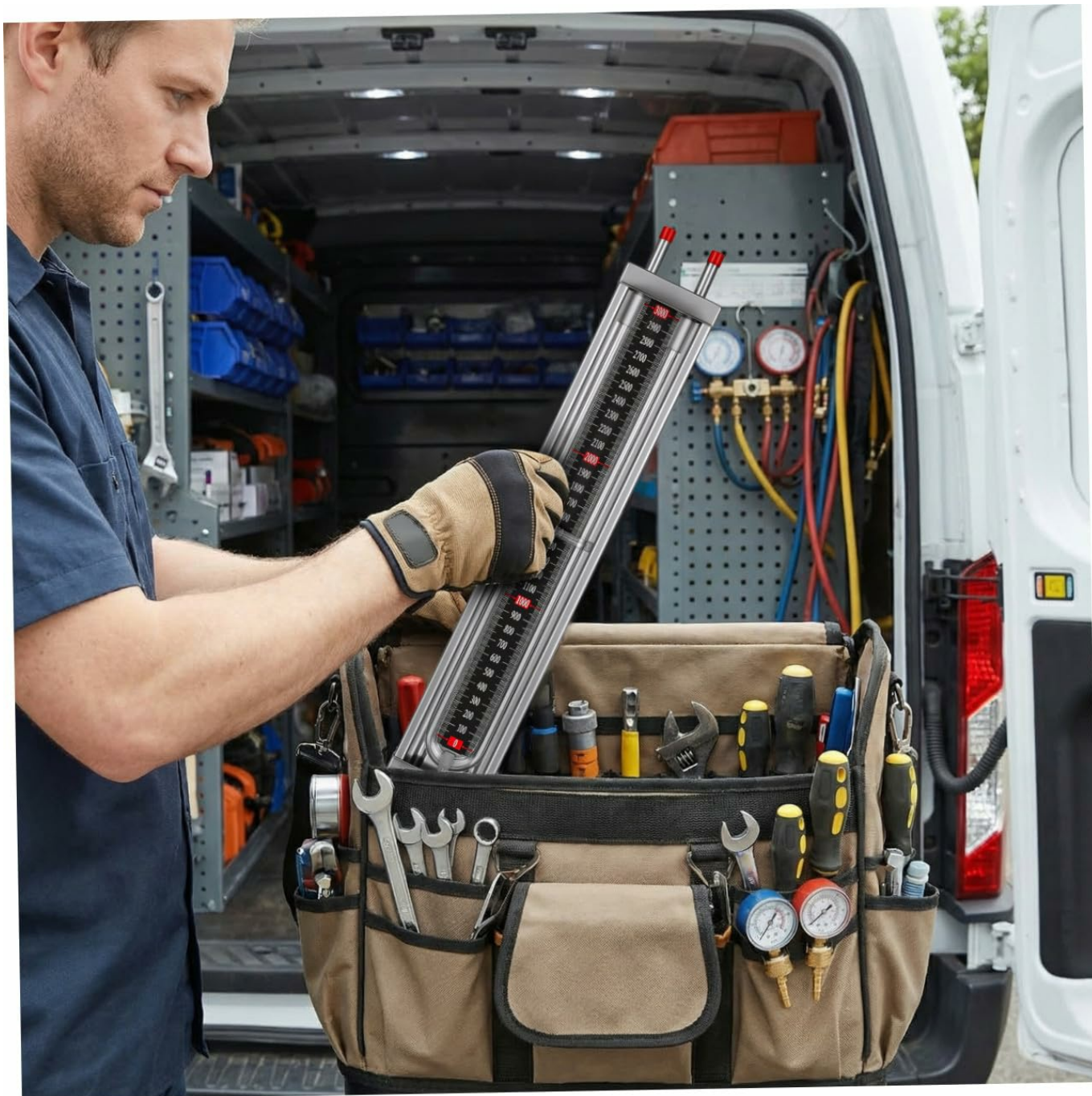


Figure 3.1: The compact design allows for easy transport and storage in a standard tool bag, facilitating use in various field applications.

4. OPERATING INSTRUCTIONS

To obtain accurate pressure differential measurements, follow these steps:

1. **Prepare the System:** Ensure the system whose pressure differential you wish to measure is ready and stable.
2. **Connect the Gauge:** Attach the gauge securely to the two points in the system where the pressure difference is to be determined.
3. **Observe Liquid Columns:** Once connected, the pressure difference will cause the liquid in the U-tube to shift. Observe the new levels of the liquid columns.
4. **Read the Measurement:** Read the values on the scale corresponding to the top of each liquid column. The difference between these two readings represents the pressure differential in Pascals (Pa).
5. **Disconnect:** After measurement, carefully disconnect the gauge from the system.



Figure 4.1: A technician utilizing the U-shaped pressure gauge to monitor pressure in a pipeline system, demonstrating its practical application.

5. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the gauge with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the stainless steel finish or the measurement scale.
- **Inspection:** Periodically inspect the gauge for any signs of physical damage, corrosion, or wear on the connections. Ensure the U-tube is clear and free from blockages or contaminants.
- **Storage:** When not in use, store the pressure gauge in a clean, dry environment away from extreme temperatures, direct sunlight, and corrosive substances. Proper storage helps maintain its accuracy and prolong its lifespan.

6. TROUBLESHOOTING

- **Inaccurate Readings:**

- Check for leaks in the tubing connections. Ensure all connections are tight.
 - Verify that the gauge is perfectly level. An unlevel gauge can lead to erroneous readings.
 - Inspect the liquid column for air bubbles, which can interfere with accurate measurement. Gently tap the gauge to dislodge bubbles if present.
- **No Liquid Movement:**
 - Confirm that the system being measured actually has a pressure differential.
 - Check for blockages in the tubing or the gauge's inlet ports.

7. SPECIFICATIONS

Feature	Specification
Model Number	ZA5302QT506TBE
Brand	ULTECHNOVO
Material	Stainless Steel
Measurement Range	0-3000 Pa
Product Dimensions (L x W x H)	38.5 x 7 x 1.2 cm (15.13 x 2.75 x 0.47 inches)
Item Weight	158 Grams
Country of Origin	China

8. WARRANTY INFORMATION

This ULTECHNOVO U-Shaped Stainless Steel Pressure Gauge is sold without an explicit warranty. Please refer to your point of purchase for their return or exchange policies.

9. SUPPORT

For technical assistance, product inquiries, or further support regarding your ULTECHNOVO U-Shaped Stainless Steel Pressure Gauge, please contact ULTECHNOVO customer service through their official website or the retailer from whom the product was purchased. Please have your model number (ZA5302QT506TBE) available when contacting support.

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