

CHBMSS EN 837-1 213.53.100

CHBMSS Half Steel Pressure Gauge EN 837-1 213.53.100 User Manual

Model: EN 837-1 213.53.100 | Brand: CHBMSS

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, installation, operation, and maintenance of your CHBMSS Half Steel Pressure Gauge, model EN 837-1 213.53.100. Please read this manual thoroughly before using the device and retain it for future reference.



Figure 1: Front view of the CHBMSS Half Steel Pressure Gauge.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the device:

- Always ensure the pressure gauge is installed by qualified personnel.
- Do not exceed the maximum rated pressure of the gauge.
- Verify compatibility of the gauge material with the measured medium.
- Protect the gauge from excessive vibration, shock, and extreme temperatures.
- Regularly inspect the gauge for any signs of damage or wear.

3. PRODUCT FEATURES

- **Standard Interface Design:** Ensures broad compatibility with various systems.
- **High-Precision Measurement:** Utilizes digital circuitry and high-precision pressure sensors for accurate pressure and vacuum readings.
- **Real-time Data:** Capable of real-time testing of pressure and relative temperature, aiding in systematic

installation or maintenance based on standard pressure and temperature relationships.

4. SPECIFICATIONS

Attribute	Value
Model Number	EN 837-1 213.53.100
Dial Size	100 mm
Pressure Range	-1 to 0 bar / -0.1 to 0 MPa
Item Weight	500 Grams (1.1 Pounds)
Package Dimensions	1.18 x 0.79 x 0.39 inches
Manufacturer	CHBMSS
ASIN	B0F3C87G2K

5. SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and device longevity. Follow these general guidelines:

- Select Location:** Choose a location free from excessive vibration, direct heat, and corrosive environments.
- Mounting:** Securely mount the gauge using appropriate fittings. Ensure the gauge face is easily visible.
- Connection:** Connect the gauge to the pressure source using compatible and properly sealed fittings. Avoid overtightening.
- Leak Check:** After installation, slowly apply pressure and check all connections for leaks using a suitable leak detection method.



Figure 2: Side view showing the gauge's connection point.

6. OPERATING INSTRUCTIONS

The CHBMSS Half Steel Pressure Gauge is designed for straightforward operation:

- **Reading the Gauge:** The gauge displays pressure in both bar and MPa. The inner scale typically indicates MPa, and the outer scale indicates bar. Read the value indicated by the needle.
- **Vacuum Measurement:** For vacuum applications, the needle will move into the negative range, indicating vacuum pressure.
- **Environmental Considerations:** Ensure the operating environment is within the specified temperature and humidity ranges for optimal performance.

7. MAINTENANCE

Regular maintenance ensures the accuracy and longevity of your pressure gauge:

- **Cleaning:** Clean the gauge face and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Inspection:** Periodically check for any physical damage, such as cracks in the casing or bent needles. Ensure the connection remains secure and free of leaks.
- **Calibration:** For critical applications, periodic calibration by a certified technician is recommended to maintain accuracy.



Figure 3: Back view of the pressure gauge.

8. TROUBLESHOOTING

If you encounter issues with your pressure gauge, consider the following:

- **No Reading/Incorrect Reading:**
 - Check for blockages in the pressure line.
 - Verify the gauge is correctly connected and sealed.
 - Ensure the pressure source is active.
- **Fluctuating Needle:**
 - This may indicate pressure pulsations in the system. Consider installing a snubber or dampener.
 - Check for excessive vibration at the mounting point.

- **Leakage at Connection:**

- Tighten connections appropriately.
- Replace seals or thread tape if necessary.

9. WARRANTY AND SUPPORT

This CHBMSS product is covered by a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the CHBMSS customer service department. Contact information can typically be found on the product packaging or the official CHBMSS website.