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VIHELM HT-1891

VIHELM HT-1891 Digital Manometer User Manual

Model: HT-1891

Introduction

This manual provides instructions for the safe and effective operation of the VIHELM HT-1891 Digital Manometer. This device is designed for measuring differential gas pressure, vacuum pressure, and gauge pressure in various applications.

Features

- 11 Selectable units of Measure
- Max / minimum / average, and with a relative time function
- Large LCD backlit dual display
- Zeroing, offset, and data compensation capabilities
- Low battery display and automatic shutdown
- Data Hold and Error code indication

Package Contents

- 1 x HT-1891 Digital Manometer
- Pouch & Tubing

Product Overview

The HT-1891 Digital Manometer features a clear LCD display, intuitive control buttons, and two pressure input ports at the top for differential measurements.



This image displays the front of the HT-1891 Digital Manometer, highlighting the large LCD screen, the power button (red), UNITS button, HOLD button, and DIF (differential) button. Two pressure input ports are visible at the top.



This image shows both the front and back of the HT-1891 Digital Manometer. The back panel includes a warning label, battery compartment, and a hanging hole.

Model Number	HT-1891
Material	ABS
Size	170*55*34mm
Color	Black and white
Weight	180g
Display	LCD
Brand	Hti
Country of origine	China
Usage	Electric power, iron, steel and others
Warranty	1 Year
MOQ	1 Piece

This image illustrates the physical dimensions of the HT-1891 Digital Manometer: 170mm height, 54.3mm width, and 35mm depth.

Setup

Battery Installation

The device requires one 9V battery (NEDA 1604 IEC 6F22) for operation.

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert a 9V battery, ensuring correct polarity.
4. Close the battery compartment cover securely.

Operating Instructions

Power On/Off

Press the red power button located on the front panel to turn the device on or off.

Unit Selection

Press the **UNITS** button to cycle through the available measurement units. The HT-1891 supports 11 different units, including InH2O, Psi, Mbar, kPa, inHg, mmHg, OzIn2, FtH2O, cmH2O, Kgcm2, and Bar.

Data Hold

Press the **HOLD** button to freeze the current reading on the display. Press the button again to release the hold function and resume live readings.

Differential Measurement (DIF)

Press the **DIF** button to activate differential measurement mode. This mode measures the pressure difference between the two input ports.

Zeroing and Compensation

The device supports zeroing, offset, and data compensation functions to ensure accurate measurements. Consult the display for specific indicators or error codes related to these functions.

Technical Specifications

Model Number	HT-1891
Material	ABS
Size	170mm x 54.3mm x 35mm
Color	Black and white
Weight	180g
Display	Dual LCD, Backlit
Accuracy	±0.3% FSO (25°C)
Repeatability	±0.2% (Max ±0.5% FSO)
Linearity/Hysteresis	±0.29% FSO
Operating Pressure Range	±34 kPa (approximately ±4.93 PSI)
Maximum Overload Pressure	20 PSI

Response Time	0.5s Typical
Low Range Indicator	Err.1
Under Range Indicator	Err.2
Operating Conditions	32°F to 122°F (0°C to 50°C)
Storage Conditions	14°F to 140°F (-10°C to 60°C)
Power Supply	1x9V Battery (NEDA 1604 IEC 6F22) or external 9VDC
Standard Accessories	Pouch & Tubing
UPC	797447589235
Date First Available	January 26, 2023
Manufacturer	VIHELM
Warranty	1 Year

Measurement Ranges and Resolutions

Function	Range	Resolution	Function	Range	Resolution
InH2O	±138.3	0.01	OzIn2	80	0.01
Psi	±5.000	0.001	FtH2O	11.53	0.001
Mbar	±344.7	0.1	cmH2O	351.5	0.1
kPa	±34.47	0.01	Kgcm2	0.351	0.001
inHg	±1.018	0.001	Bar	0.344	0.001
mmHg	±258.5	0.1			

Maintenance

- Keep the device clean and dry. Use a soft, damp cloth for cleaning. Do not use abrasive cleaners or solvents.
- Store the device in its protective pouch when not in use to shield it from dust and potential damage.
- Remove the battery if the device will not be used for an extended period to prevent battery leakage and potential damage to the unit.

Troubleshooting

Error Codes

- **Err.1**: Low Range Indicator. This indicates that the measured pressure is below the device's minimum detectable range.
- **Err.2**: Under Range Indicator. This indicates that the measured pressure is below the specified operating range.

General Issues

- **Device does not power on**: Check battery installation and ensure the battery has sufficient charge. Replace the

battery if necessary.

- **Inaccurate readings**: Ensure the device is zeroed correctly before use. Check for any blockages in the pressure input ports or tubing that could affect readings.

Warranty and Support

This product comes with a 1-year warranty from the date of purchase. For technical support, warranty claims, or any inquiries, please contact your retailer or the manufacturer, VIHELM.

Manufacturer: VIHELM

ASIN: B0BT4NFG73

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Details

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