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iDili QX-1201

iDili QX-1201 Digital Manometer User Manual

Differential Air Pressure Gauge & Indoor Temperature Measurement Tool

1. Introduction

The iDili QX-1201 is a professional digital manometer designed for measuring single pipe air pressure or the differential pressure between two pipes. It also features indoor temperature measurement capabilities. This device is suitable for various applications including ventilation and air conditioning (HVAC) system measurements, gas pressure checks, calibration tasks, and general troubleshooting of pressure systems.
Key features include a high-quality pressure sensor, high-precision ADC, low power consumption MCU, and a large digital display for clear data viewing. It offers a wide measurement range, high resolution, and high accuracy.



Figure 1: Front view of the iDili QX-1201 Digital Manometer, showing the display and control buttons.

2. Package Contents

Please check the package for the following items:

- 1 x iDili QX-1201 Digital Manometer
- 2 x Connection Tubes
- 1 x Adapter
- 1 x User Guideline (this manual)
- 1 x Carrying Bag



Figure 2: All items included in the iDili QX-1201 package: the manometer, connection tubes, adapter, and carrying bag.

3. Setup

3.1 Battery Installation

The iDili QX-1201 requires one 9V (6F22) battery, which is not included in the package. To install the battery:

1. Locate the battery compartment on the back of the device.
2. Slide the battery cover downwards to open it.
3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery cover by sliding it upwards until it clicks into place.



Figure 3: Rear view of the manometer, highlighting the battery compartment for 9V battery installation.

3.2 Connecting Tubes

The manometer has two input ports at the top for connecting the pressure tubes. These ports are typically labeled '+' and '-' for differential pressure measurements.

1. Identify the pressure source(s) you wish to measure.
2. Connect the provided tubes to the metal ports on the top of the manometer.
3. For single pipe pressure, connect one tube to the '+' port and leave the '-' port open to atmospheric pressure, or connect it to a reference point.
4. For differential pressure, connect the higher pressure source to the '+' port and the lower pressure source to the '-' port.



Figure 4: Top view of the manometer, showing the two pressure input ports for tube connections.

4. Operating Instructions

4.1 Power On/Off

- To power on the device, press the red **Power** button.
- To power off the device, press and hold the red **Power** button for a few seconds.
- The device features an automatic shut-off function after 15 minutes of inactivity to conserve battery life.

4.2 Unit Selection

The manometer supports 12 different pressure units and two temperature units (Celsius and Fahrenheit).

- To change pressure units, press the **UNITS** button repeatedly until the desired unit (e.g., kPa, psi, mmHg) is displayed.
- To switch between Celsius (°C) and Fahrenheit (°F) for temperature measurement, press the **°C/°F** button.



Figure 5: Angled view of the manometer, illustrating the display with various selectable pressure units.

4.3 Measurement Modes

- **Real-time Measurement:** Upon powering on, the device displays real-time pressure values.
- **DIF Mode:** Press the **DIF** button to enter differential pressure mode. This mode calculates and displays the difference between the pressure at the '+' port and the '-' port.
- **MAX/MIN Mode:** Press the **MAX** button to cycle through maximum, minimum, and average pressure readings recorded since the device was powered on or the mode was reset.

4.4 Data Hold

To freeze the current reading on the display, press the**HOLD** button. Press it again to release the hold and resume real-time measurements.

5. Maintenance

5.1 Cleaning

To clean the device, wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or display. Ensure no liquid enters the pressure ports or other openings.

5.2 Storage

When not in use for extended periods, remove the 9V battery to prevent leakage and store the manometer in its

carrying bag in a cool, dry place, away from direct sunlight and extreme temperatures. The recommended storage temperature is -10°C to 60°C (14°F to 140°F).

5.3 Battery Replacement

The device will indicate a low battery when the voltage drops to ≤6.8V. Replace the battery promptly to ensure accurate readings and proper operation. Refer to section 3.1 for battery installation instructions.

6. Troubleshooting

- **Device does not power on:**
  Check if the 9V battery is installed correctly and has sufficient charge. Replace the battery if necessary.
- **Inaccurate readings:**
  Ensure tubes are securely connected and not kinked or blocked. Verify that the correct pressure unit is selected. Allow the device to stabilize in the measurement environment.
- **Display is blank or flickering:**
  This may indicate a low battery. Replace the 9V battery.
- **No differential pressure reading in DIF mode:**
  Ensure both '+' and '-' ports are correctly connected to their respective pressure sources.

7. Specifications

Parameter	Value
Product Name	Digital Manometer
Model	QX-1201
Material	ABS
Display	LCD
Battery	1 x 9V (6F22) Battery (not included)
Pressure Measurement Range	±2.999 psi (equivalent to ±20.68 kPa)
Accuracy	±0.3% FSO (at 25°C)
Data Storage Capacity	100 readings
Maximum Pressure	20 KPa
Temperature Units	°C / °F switchable
Low Battery Notification	≤6.8V
Auto Shut-off	After 15 minutes of no operation
Operating Temperature	0°C to 50°C (32°F to 132°F)
Storage Temperature	-10°C to 60°C (14°F to 140°F)
Product Dimensions	159 x 76 x 32 mm
Product Weight	260 g



Figure 6: Side view of the manometer, illustrating its physical dimensions.

7.1 Pressure Unit Ranges and Resolutions

Unit	Range	Resolution	Unit	Range	Resolution
kPa	±20.68	0.001	inHg	±6.106	0.001
psi	±2.999	0.001	mmHg	±151.1	0.1
kgcm²	±0.210	0.001	inH₂O	±83.02	0.01
ozin²	±47.99	0.01	ftH₂O	±6.918	0.001
bar	±0.206	0.001	cmH₂O	±210.8	0.1
mbar	±206.8	0.1	Pa	±20680	1

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Unit	Range	Resolution	Unit	Range	Resolution
kPa	±20.68	0.001	inHg	±6.106	0.001
psi	±2.999	0.001	mmHg	±151.1	0.1
$kgcm^2$	±0.210	0.001	inH_2o	±83.02	0.01
$ozin^2$	±47.99	0.01	ftH_2o	±6.918	0.001
bar	±0.206	0.001	cmH_2o	±210.8	0.1
mbar	±206.8	0.1	Pa	±20680	1

Figure 7: Detailed table showing the various pressure units, their measurement ranges, and resolutions supported by the QX-1201.

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact iDili customer service. Keep your purchase receipt as proof of purchase.
For further assistance, you may visit the iDili brand page on Amazon:iDili on Amazon

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