Xetron XT-LMG-10X-EU

Xetron HVAC Digital Manifold Gauge User Manual

Model: XT-LMG-10X-EU

1. INTRODUCTION

The Xetron LMG-10X Digital Manifold Gauge is an advanced tool designed for HVAC and refrigeration systems. It provides precise measurements for pressure, temperature, vacuum, and automatically calculates superheat and subcooling. This manual will guide you through the setup, operation, and maintenance of your device.

Figure 1: Xetron LMG-10X Digital Manifold Gauge with included accessories.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure all connections are secure before operating.
- Do not expose the device to extreme temperatures or direct sunlight for prolonged periods.
- Use only specified accessories and probes.
- Keep the device away from water and other liquids.
- Refer servicing to qualified personnel only.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Xetron Digital Manifold Gauge (LMG-10X)
- 2 x Clamp Temperature Probes
- 1 x Carrying Case

- 1 x User Manual (this document)

Figure 2: What's in the box - Xetron Digital Manifold and Clamp Temperature Probes.

4. SETUP

4.1. Initial Power On

1. Insert batteries into the compartment on the back of the unit (if not pre-installed).
2. Press and hold the power button () to turn on the device.
3. The LCD screen will illuminate and display the initial measurement interface.

4.2. Connecting Probes and Hoses

Connect the clamp temperature probes to the designated ports on the manifold. Ensure a secure connection. Refrigerant hoses (not included) can be connected to the 1/4" SAE threaded connectors at the bottom of the unit.

Figure 3: Connecting the Xetron LMG-10X to an HVAC system.

5. OPERATING INSTRUCTIONS

5.1. Pressure and Temperature Measurement Mode

This mode displays real-time pressure and temperature readings, along with calculated saturation temperatures (VSAT, LSAT).

Figure 4: Interface for Pressure and Temperature Measurement Mode.

5.2. Superheat and Subcooling Measurement

The device automatically calculates superheat (SH) and subcooling (SC) values based on the selected refrigerant and measured parameters.
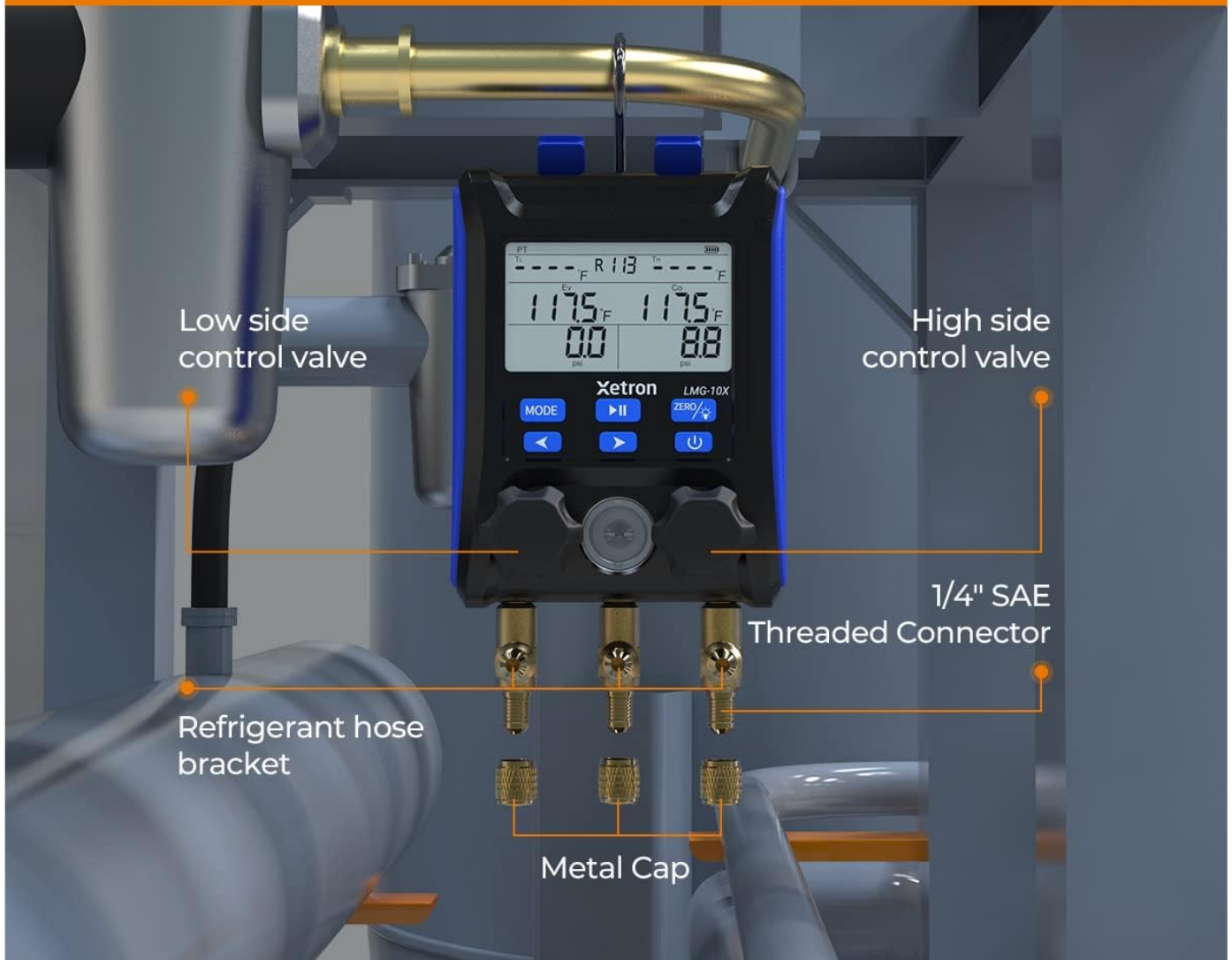
Figure 5: Display showing Superheat and Subcooling measurements.

5.3. Pressure Hold Test Mode

To enter Pressure Hold Test mode, briefly press the **MODE** button followed by the **PLAY**/**PAUSE** button from VAC mode. This mode allows you to monitor pressure changes over time.

Druk kort op MODE + ▶ om van VAC-modus naar HOLD-modus te gaan
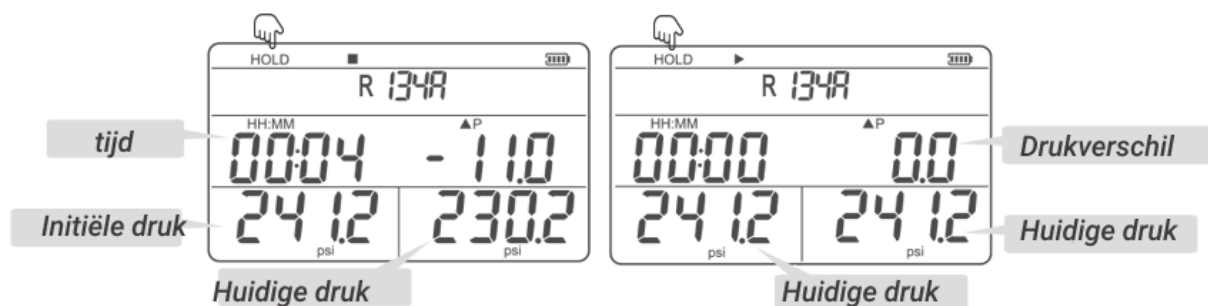

Figure 6: Interface for Pressure Hold Test Mode.

5.4. Unit Settings and Auto Shutdown

The device allows for conversion of various measurement units and configuration of automatic shutdown settings.

Figure 7: Temperature Unit Setting.

Figure 8: Pressure Unit Setting.

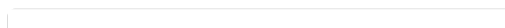*Figure 9: Auto Shutdown OFF.*

Figure 10: Auto Shutdown ON.

6. BUILT-IN REFRIGERANT DATABASE

The Xetron LMG-10X comes with a comprehensive database of 88 types of refrigerants, allowing for accurate calculations and measurements across various systems.

R113 R114 R115 R116 R12 R123 R1233ZD R1234ZE R1234YF R124 R125
R13 R134a R14 R141B R142B R143A R152A R170 R22 R23 R236FA
R245FA R290 R32 R401A R401B R401C R402A R402B R403B R404A
R406A R407A R407B R407C R407D R407F R408A R409A R410A R410B
R412A R413A R414A R414B R416A R417A R417C R420A R421A R421B
R422A R422B R422C R422D R424A R426A R427A R428A R429A R434A
R437A R438A R441A R443A R448A R449A R450A R452A R452B R453A
R454A R454B R455A R458A R500 R502 R503 R507A R508A R508B R514A
R600 R600a R601a R718 R744

Figure 11: Partial list of supported refrigerants.

7. MAINTENANCE

7.1. Cleaning

Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage.

7.2. Storage

Store the device in its carrying case in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrectly inserted batteries.	Replace batteries; ensure correct polarity.
Inaccurate readings.	Probes not properly connected; incorrect refrigerant selected.	Check probe connections; verify selected refrigerant matches system.
Display is dim or flickering.	Low battery power.	Replace batteries.

9. SPECIFICATIONS

Model: XT-LMG-10X-EU

Dimensions (L x W x H): 37 x 30 x 10 cm (14.57 x 11.81 x 3.94 inches)

Item Weight: 1.2 kg (2.65 lbs)

Material: Acrylonitrile Butadiene Styrene (ABS)

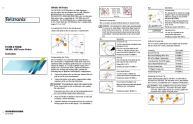**Refrigerant Database:** 88 types

Functions: Pressure & Temperature Measurement, Vacuum Measurement, Pressure Hold Test, Automatic Shutdown, Temperature Compensation
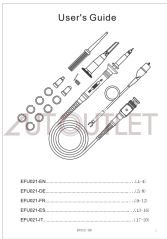
10. WARRANTY AND SUPPORT

Xetron offers a one-year warranty for the LMG-10X Digital Manifold Gauge. For any questions or support needs, please contact Xetron customer service. We are committed to providing lifetime customer service.
For further assistance, please visit the official Xetron website or contact their support channels.
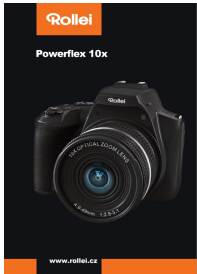
Related Documents - XT-LMG-10X-EU

	ZES ZIMMER LMG450: 4-Channel Precision Power Meter for Energy Analysis Explore the ZES ZIMMER LMG450, a versatile 4-channel precision power meter designed for motors, power electronics, and energy analysis. Features include a color graphics display, extensive measurement capabilities, and advanced functions for development and testing.
	New Zealand Airsoft League Championship Rules - Official Rulebook Official rulebook for the New Zealand Airsoft League (NZAL) Championship events, detailing regulations, classes, equipment, match structure, safety, and conduct.
	Gamo 10X, 10X GEN2, 10X GEN3i Quick-Shot Break Barrel Air Rifles User Manual Comprehensive user manual for Gamo 10X, 10X GEN2, and 10X GEN3i Quick-Shot break barrel air rifles, covering safety, operation, maintenance, and troubleshooting.
	Tektronix P6139B & P5050B 500 MHz 10X Passive Probes: Instructions and Specifications Comprehensive instructions and specifications for Tektronix P6139B and P5050B 500 MHz 10X passive oscilloscope probes, covering setup, compensation, accessories, and safety.

[AUTOUTLET P6000 Series Oscilloscope Probe User Guide](#)
User guide for the AUTOUTLET P6000 series oscilloscope probes, including P6020, P6040, P6060, P6100, P6150, and P6200 models. Covers frequency compensation, accessories, features, and technical specifications.

[Rollei Powerflex 10x Digital Camera User Manual](#)
Comprehensive user manual for the Rollei Powerflex 10x digital camera, detailing safety instructions, product features, setup, settings, operational modes, connectivity options, and maintenance procedures.