CEM LDM-100H

CEM LDM-100H Laser Distance Meter User Manual

Model: LDM-100H | Brand: CEM

1. PRODUCT OVERVIEW

The CEM LDM-100H Laser Distance Meter utilizes advanced laser technology to provide fast, accurate, and reliable distance measurements. Designed for ease of use, this device helps users quickly obtain precise measurements, avoiding common errors associated with traditional methods or less precise instruments.

Figure 1.1: Front view of the CEM LDM-100H Laser Distance Meter, showing its display and control buttons.

Key Features:

- Precision laser for accurate target identification and measurement.
- Capable of single distance measurement.
- Supports continuous measurement mode for tracking distances.
- Integrated area calculation function.
- Integrated volume calculation function.

2. INITIAL SETUP

2.1 Battery Installation

The LDM-100H requires standard batteries for operation. Locate the battery compartment cover on the rear or bottom of the device. Slide or unclip the cover to open. Insert the batteries, ensuring correct polarity (+/-) as indicated inside the compartment. Close the battery cover securely.

2.2 Powering On/Off

To power on the device, press the **CLR/Power** button (usually marked with a power symbol). The display will illuminate. To power off, press and hold the **CLR/Power** button for a few seconds until the display turns off. The device may also feature an automatic shut-off function to conserve battery life after a period of inactivity.

3. OPERATING INSTRUCTIONS

3.1 Basic Measurement (Single Distance)

1. Ensure the device is powered on.
2. Point the laser beam at the target point from which you wish to measure the distance.
3. Press the **MEAS** button. The laser will activate, and the measured distance will be displayed on the screen.

3.2 Measurement Modes

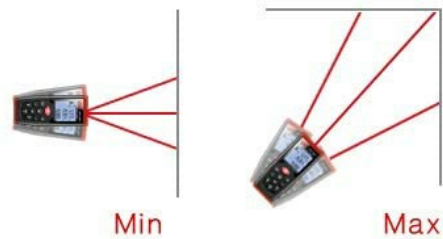The LDM-100H offers several measurement modes for various applications:

Figure 3.1: Illustrations of various measurement capabilities including distance, area, and continuous measurement.

Continuous Measurement Mode:

This mode allows for dynamic measurement, continuously updating the distance as you move the device. It is useful for finding minimum or maximum distances, or for setting out specific lengths. To activate, press the **MEAS** button and then select the continuous measurement icon (often indicated by a running person or multiple lines) using the mode selection button. The display will show real-time distance updates.

Area Measurement:

To calculate the area of a surface (e.g., a room), select the area measurement mode (often indicated by a square icon). The device will prompt you to take two measurements: first the length, then the width. After both measurements are taken, the device automatically calculates and displays the area.

Volume Measurement:

For calculating the volume of a space, select the volume measurement mode (often indicated by a cube icon). The device will prompt you to take three measurements: length, width, and height. Once all three measurements are recorded, the device will automatically calculate and display the volume.

Figure 3.2: The CEM LDM-100H in operation, projecting a visible laser line for precise measurement within an indoor environment.

4. CARE AND MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser lens is kept clean and free from dust or smudges for accurate measurements.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, as this can damage internal components and affect accuracy.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the display to ensure consistent performance.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries with new ones; ensure correct polarity.

Problem	Possible Cause	Solution
Inaccurate measurements.	Laser lens is dirty; unstable measuring surface; strong light interference.	Clean the laser lens; ensure a stable measurement; avoid direct sunlight or strong light sources.
Display shows "Error" or "Out of Range".	Measurement target too far or too close; laser beam obstructed.	Ensure target is within specified measurement range; clear any obstructions.

If the problem persists after attempting these solutions, please contact customer support.

6. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	CEM
Model Number	LDM-100H
Measurement Range	Up to 100m (as per product title)
Item Weight	600 g
Product Dimensions (LxWxH)	15 x 10 x 8 cm
Country of Origin	China
Manufacturer	CEM Instruments

Note: Specifications are subject to change without notice. For the most current information, please refer to the official product documentation.

7. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official CEM Instruments website. Keep your proof of purchase for warranty claims.

If you encounter any issues or require technical assistance, please contact CEM Instruments customer support. Contact details can typically be found on the manufacturer's website or in the product packaging.

Always ensure you are using official support channels for assistance.

Related Documents

	CEM LDM-100 Laser Distance Meter User Manual - Operation, Features, and Specifications Detailed user manual for the CEM LDM-100 Laser Distance Meter. Learn about its features, functions, safety instructions, technical specifications, and troubleshooting for accurate distance measurements.
	CEM LM-50 Laser Distance Meter User Manual Comprehensive user manual for the CEM LM-50 Laser Distance Meter, covering safety instructions, operation, measurement functions, technical specifications, and troubleshooting.
	CEM iLDM-150 Laser Distance Meter User Manual Comprehensive guide for the CEM iLDM-150 Laser Distance Meter, detailing its features, operation for distance, area, and volume measurements, and technical specifications.
	CEM DT-610B Digital Thermometer - Technical Specifications and Features Detailed technical specifications, features, and contact information for the CEM DT-610B portable digital thermometer, designed for K-type thermocouples.

Documents - CEM – LDM-100H

[pdf] User Manual

Professional Laser Distance Meter of CEM neonics co th manual |||

CEM LDM-110H/100H/80H/60H/40H LDM-H sereis Professional Laser Distance Meter of outdoor application ... 0m 10m 20m 30m 40m 50m EMC EN: 61326 EN: 60825-1 www.newww.tools.in.th LINEID: neonics Model **LDM-100H** Small and handy Smart function Minimum / maximum measurements, tracking and storage of res...
lang:en score:33 filesize: 4.92 M page_count: 1 document date: 2024-01-12

[pdf] User Manual

Professional Laser Distance Meter of outdoor Tools in th 0 05 to 65m 15ft 213 2ft Measuring accuracy 2σ Typically ±1 5mm ±0 06 Smallest unit displayed 1mm units m ft Class II CEM tools manual LDM H sereis Specifi cations 40H 50H 100 60H 70H 80H 100H 110H 35 65 Range 40m 131 80

CEM LDM-110H/100H/80H/60H/40H LDM-110H/100H/80H/60H/40H CEM LDM-H sereis Professional Laser Dist ... m 10m 20m 30m 40m 50m EMC EN: 61326 EN: 60825-1 www.wtoww.too ls.in LINEID:neonicstool Model **LDM-100H** Small and handy Smart function Minimum / maximum measurements, tracking and storage of res...
lang:en score:25 filesize: 4.24 M page_count: 1 document date: 2017-05-12

[pdf] Specifications Catalog

H 40H LDM 110H 100H 80H 60H 70H 35 65 Measuring Model ■■■■■■■■■■■■■
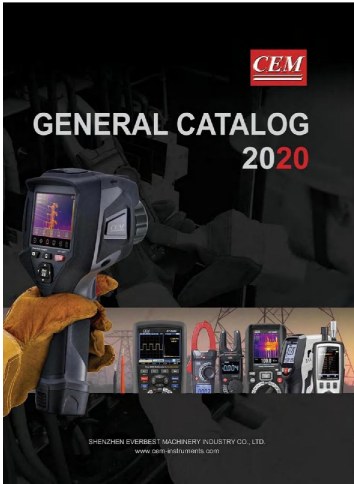■■■■■■■■■ ■■■■■ Tel catalog tools in th 2021 12 |||

LDM-110H/100H/80H/60H/40H LDM-H sereis Professional Laser Distance Meter of outdoor application CEM EMC EN: 61326 EN: 60825-1 Model LDM-110H Model **LDM-100H** Model LDM-80H Model LDM-60H Model LDM-40H Features Measuring Range Area, Volume Calculations Indirect measurement using Pythagoras Additi...

lang:en score:16 filesize: 4.48 M page_count: 1 document date: 2024-02-01

Laser Distance Meters Price List - Viva-Telecom

Comprehensive price list for laser distance meters from Viva-Telecom, featuring models from ADA, Bosch, CEM, Condtrol, Fluke, Leica, and RGK. Includes detailed specifications and pricing.

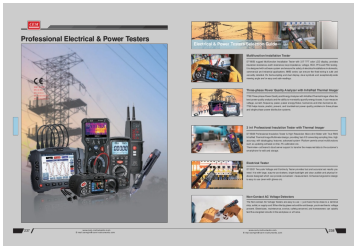lang:it score:15 filesize: 77.43 K page_count: 12 document date: 2025-08-02

[pdf] Catalog

CEM Catalogue 2020 version Ampe Kìm đo Công Suất AC DT 3348 240kW DC 1000A 600V True RMS IMALL imall vn 2021 03 |||

ROBUST DURABLE STRONG OVER ANY REQUIREMENTS For over 29 years, CEM, SHENZHEN EVERBEST MACHINERY I ...

....P275 Laser Distance Meters * **LDM-100H** Series Professional Laser Distance Meter of outdoor application ....

lang:en score:11 filesize: 25.4 M page_count: 205 document date: 2019-10-08

[pdf] Troubleshooting Guide Guide

Professional Electrical Power Testers b2a879391f67ad79eaa3c3c68174d1c5cb5bc520 775993 emin vn d cdn |||

CEM Professional Electrical Power Testers EMC LVD EN: 61326 EN: 61010-1 EN: 61010-02-032 EN: 610 ... suring perception Distance Measuring Range up 110m 360.8ft EMC EN: 61326 EN: 60825-1 295 Model **LDM-100H** Small and handy Smart function Minimum / maximum measurements, tracking and storage of res...

lang:en score:10 filesize: 21.39 M page_count: 40 document date: 2021-01-13