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TRUPER DEMA-12

Truper DEMA-12 Multi-Function Wall Material Detector User Manual

Model: DEMA-12 | Part Number: 100651

1. INTRODUCTION

The Truper DEMA-12 is a multi-function detector designed to accurately locate various materials behind walls. It can detect ferrous and non-ferrous metals, wood studs, live AC wires, and measure humidity in wood and construction materials. This manual provides essential information for the safe and effective operation of your device.

2. SAFETY INFORMATION

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

- Always ensure the work area is well-lit and clear of obstructions.
- Do not use the device in wet or damp conditions.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.
- Keep the device away from strong magnetic fields.
- Always exercise caution when drilling or cutting into walls, even after using the detector.

3. PRODUCT OVERVIEW

3.1 Device Appearance





TRUPER



HOLD



Humidity Sensor

Figure 1: Front view of the Truper DEMA-12 detector.

3.2 Components and Display



Figure 2: Labeled diagram of the Truper DEMA-12 detector, showing LED indicator, LCD screen, battery indicator, metal depth, wood/cable/metal indicator, signal strength scale, power button, wood stud detection button, metal and live wire detection button, humidity measurement mode button, HOLD button, and humidity sensor pin cover.

- **LED Indicator:** Provides visual feedback during detection.
- **LCD Screen:** Displays detection mode, battery status, signal strength, and material type.
- **Battery Indicator:** Shows current battery level.
- **Metal Depth Indicator:** Estimates the depth of detected metal objects.
- **Material Indicators:** Icons for wood, cables, and various metals.
- **Signal Strength Scale:** Visual representation of detection signal strength.
- **Power Button:** Turns the device on and off.
- **Wood Stud Detection Button:** Activates wood detection mode.
- **Metal and Live Wire Detection Button:** Activates metal and live wire detection mode.
- **Humidity Measurement Mode / HOLD Button:** Toggles humidity measurement mode and holds the current reading.
- **Humidity Sensor Pin Cover:** Protects the humidity sensor pins.

4. SETUP

4.1 Battery Installation

The Truper DEMA-12 requires one 9V battery (included). To install the battery:

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open it.
3. Connect the 9V battery to the battery clip, ensuring correct polarity (+/-).
4. Place the battery into the compartment and close the cover securely.

5. OPERATION

5.1 Powering On/Off

Press the power button (labeled with a circle and vertical line) to turn the device on. Press and hold the power button to turn it off.

5.2 Detection Modes

The DEMA-12 offers multiple detection modes for various materials. Ensure the device is calibrated correctly before each use by holding it against the wall in the desired mode and waiting for the calibration process to complete (usually indicated by a stable reading or a specific icon).

5.2.1 Metal and Live Wire Detection

Press the button with the lightning bolt icon to activate metal and live wire detection. Slowly move the device across the wall surface. The LCD will display icons for ferrous metals, non-ferrous metals, or live AC wires, along with signal strength and estimated depth.

5.2.2 Wood Stud Detection

Press the button with the wood stud icon to activate wood detection mode. Scan the wall slowly. The device will indicate the presence and edges of wood studs.

5.2.3 Humidity Measurement

To measure humidity, slide open the cover at the bottom of the device to expose the humidity sensor pins. Press the button labeled 'HOLD' to enter humidity measurement mode. Carefully insert the pins into the wood or construction material. The LCD will display the humidity percentage. Press 'HOLD' again to freeze the reading.

5.3 Interpreting the Display

The LCD provides visual cues for detected materials and signal strength. A higher signal strength indicates closer proximity to the detected object. The depth indicator provides an approximate measurement of how deep the object is within the wall.

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Figure 3: Maximum detection depths for various materials.

Maximum Detection Depths

Material	Maximum Detection Depth
Ferrous Metals	120 mm (4 3/4")
Non-Ferrous Metals	80 mm (3 1/4")
Live AC Wires	50 mm (2")
Wood (Exact Mode)	20 mm (3/4")
Wood (Deep Mode)	38 mm (1 1/2")

6. MAINTENANCE

6.1 Cleaning and Storage

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Remove the battery if the device will not be used for an extended period.
- Store the device in its protective case (Figure 4) in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the humidity sensor pins are clean and protected by their cover when not in use.





Figure 4: The Truper DEMA-12 includes a protective carrying case.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead battery; incorrect battery installation.	Replace the 9V battery; ensure battery is installed with correct polarity.
Inaccurate or inconsistent readings.	Improper calibration; presence of other electronic devices; wall material too dense or irregular.	Recalibrate the device on a clear section of the wall; move away from other electronics; try scanning from different angles.
Humidity sensor not providing readings.	Pins not fully inserted; material too dry; pins are dirty or damaged.	Ensure pins are fully inserted into the material; clean the pins; replace if damaged.

Problem	Possible Cause	Solution
Device beeps continuously or gives false positives.	Interference; device too close to a detected object; high humidity in the environment.	Move to a different location; recalibrate; ensure the wall surface is dry.

8. SPECIFICATIONS

8.1 Technical Data

Feature	Detail
Manufacturer	Truper
Part Number	100651
Power Source	AC/DC (9V battery)
Included Components	Carrying Case, 1 x 9V Battery
Package Dimensions	25 x 12 x 8 cm
Item Weight	320 g
Model Number	100651
ASIN	B0CN3PNHZP

9. WARRANTY AND SUPPORT

9.1 Truper Warranty Information

Grupo Truper's warranty covers over 25,000 accessories and spare parts, with minimal or no labor cost. Truper maintains 177 service centers in Mexico and 15 other Latin American countries. A purchase receipt is not required to validate the warranty.

For specific warranty claims or technical support, please refer to the official Truper website or contact their customer service directly. Contact information can typically be found on the product packaging or the manufacturer's official website.

Related Documents - DEMA-12

	<p>TRUPER CM-14N Metal Cut-off Saw User Manual and Safety Guide</p> <p>Comprehensive user manual and safety guide for the TRUPER CM-14N Metal Cut-off Saw, covering specifications, operation, maintenance, troubleshooting, and warranty information.</p>
	<p>Truper MUT-830 Digital Multimeter: User Manual and Specifications</p> <p>Comprehensive user manual for the Truper MUT-830 digital multimeter. Covers safety precautions, general and technical specifications, parts description, detailed operating instructions for voltage, current, resistance, continuity, diode, and transistor measurements, plus battery testing, maintenance, and warranty information.</p>
	<p>TRUPER DETA-N Drywall Screwdriver Manual Technical Specs & Safety Guide</p> <p>Comprehensive user manual for the TRUPER INDUSTRIAL DETA-N Drywall Screwdriver (Model 16024). Includes technical specifications, power requirements, safety warnings, parts identification, operation instructions, maintenance, and warranty information.</p>
	<p>TRUPER LIOR-1/4N2 Orbital Sander User Manual and Safety Guide</p> <p>Comprehensive user manual for the TRUPER LIOR-1/4N2 Orbital Sander, covering technical specifications, safety instructions, operation tips, maintenance, and warranty information.</p>
	<p>TRUPER Expert PIPI-440X Gravity Spray Gun User Manual</p> <p>Comprehensive user manual for the TRUPER Expert PIPI-440X Gravity Spray Gun, covering technical specifications, safety warnings, parts, preparation, operation, maintenance, troubleshooting, and warranty information.</p>



[Instructivo Truper Industrial Taladro Tipo Espada TALE-1/2N](#)

Manual de usuario e instrucciones de seguridad para el Taladro Tipo Espada Truper Industrial modelo TALE-1/2N. Incluye especificaciones técnicas, operación, mantenimiento y garantía.