



## ERMENRICH SM70 Ping Stud Detector User Manual

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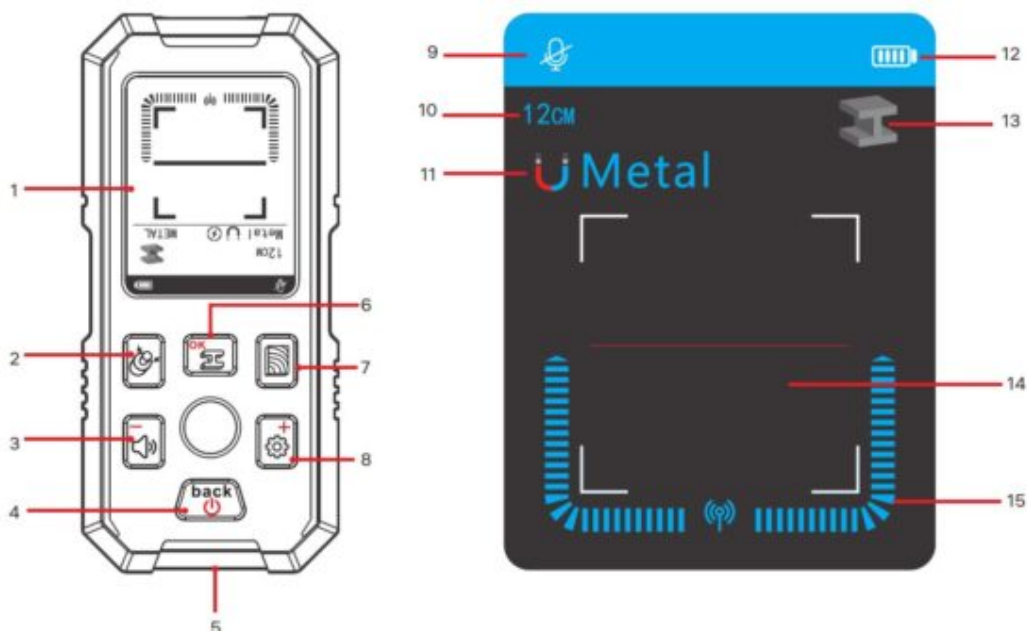
### Ermenrich Ping SM70 Stud Detector User Manual



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## SM70 Ping Stud Detector



- 1 HD color screen
- 2 AC wire detection button
- 3 Sound/- button
- 4 Power/Back button
- 5 Power input
- 6 Metal detection/Confirm button
- 7 Stud detection button
- 8 Set/+ button

- 9 Acoustic alert
- 10 Scan depth indicator
- 11 Detection result
- 12 Battery indicator
- 13 Detection mode
- 14 Center mark
- 15 Signal strength indicator



### Correct position of the device while in operation.

Please note that, for your convenience, the screen is positioned on the bottom and the push button panel is located on the top of the device.





Please carefully read the safety instructions and the user manual before using this product. Keep away from children. Use the device only as specified in the user manual.



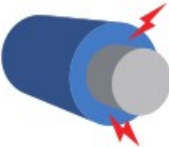
The kit includes: stud detector, Type-C USB cable, pouch, user manual, and warranty.

### Charging the device

This device uses a rechargeable polymer lithium battery. Connect the power cable (included) to the device and the DC adapter (not included) via a USB plug and connect it to the AC power supply to charge the device.

### Display information

Display icons		Detection result
1		Non-ferrous metal
2		Ferrous metal
3		AC wire
4		Wooden/metal stud

Display icons		Mode
1		Stud detection
2		Metal detection
3		AC wire detection

## Getting started

Press the Power/Back button (4) and hold it for 3s to turn the device on/off.

**!** Calibration must be done each time a new mode is selected.

## Sensitivity setting

You can set the sensitivity in the three detection modes separately. Press the Set/+ button (8) to enter the menu. Select “Sensitivity setting”. Press the Sound/– button (3) and the Set/+ button (8) to adjust the sensitivity level (high/middle/low), press the Metal detection/Confirm button (6) to select the setting item, and press the Power/Back button (4) to return.



## Metal detection mode

The metal detection mode is used for the detection of hidden objects made of ferrous and non-ferrous metals. The metal detection mode is set by default.

## Calibration

1. Press the Set/+ button (8) to enter the menu. Select “Metal detection calibration”.
2. Place the device flat against the target surface.
3. Press the Metal detection/Confirm (6) button to start the calibration. The calibration will be carried out automatically. When the white part of the display becomes dark, the calibration is completed.
4. Remove the device from the surface and press Power/Back button (4) to exit the calibration mode.

## Usage

1. Complete the calibration and place the device flat against the surface to be tested.
2. Slowly move the detector across the surface in the direction you want to scan.
3. When the device detects a metal object, the screen will display the icon  (non-ferrous metal) or  (ferrous metal), the value of the distance to the target, and the signal strength indication. The device will emit a sound.

The closer the device is to the object, the stronger the signal will be.

4. When the signal is the strongest, the center mark (14) lights up. Move the device to locate the object according to the signal intensity.

! If you're receiving erratic scanning results, it may be a result of humidity, moisture within the wall cavity or drywall, or recently applied paint or wallpaper that isn't fully dried.

## **Stud detection mode**

The device can scan the surface for wooden and/or metal studs.

### **Calibration**

#### **Automatic calibration**


1. Press the Stud detection button (7) to enter the stud detection mode.
2. Place the device flat against the target surface.
3. Press the Stud detection button (7) to start calibration. The calibration will be carried out automatically. When the white part of the display becomes dark, the calibration is completed.
4. Remove the device from the surface and press Power/Back button (4) to exit the calibration mode.

If the device does not search for wooden/metal objects after automatic calibration, you need to calibrate the device manually.

#### **Manual calibration**

1. Press the Stud detection button (7) to enter the stud detection mode.
2. Place the device flat against the target surface. When the display becomes dark, press the Stud detection button (7) to force the device to calibrate.
3. Slowly move the detector across the surface in the direction you want to scan. When the signal is the strongest, the center mark (14) lights up.
4. Remove the device from the surface and press the Power/Back button (4) to exit the calibration mode.

## **Usage**

1. Press the Stud detection button (7) to enter the stud detection mode.
2. Complete the calibration and place the device flat against the surface to be tested.
3. Slowly move the detector across the surface in the direction you want to scan.
4. If a stud is detected, the screen will display the wooden/metal stud icon , the value of the distance to the target, and the signal strength indication. The device emits a sound. The closer the device to the object, the stronger the signal.

## **AC detection mode**

This mode is used only to detect live wires.

### **Calibration**

1. Press the AC wire detection button (2) to enter the AC detection mode.
2. Place the device flat against the target surface.
3. Press the AC wire detection button (2) to start calibration. The calibration will be carried out automatically.  
When the white part of the display becomes dark, the calibration is completed.
4. Remove the device from the surface and press the Power/Back button (4) to exit the calibration mode.

## Usage

1. Complete the calibration and place the device flat against the surface to be tested.
2. Slowly move the detector across the surface in the direction you want to scan.
3. When the device detects a live wire, the screen will display the live wire icon , the value of the distance to the target, and the signal strength indication. The device emits a sound. The closer the device to the object, the stronger the signal. You can reduce the sensitivity of the device multiple times to narrow the search area even more and locate the live wire with greater accuracy.

## Specifications

Max. detection depth	live wiring: 50mm ferrous metals: 120mm / non-ferrous metals: 100mm wooden/metal studs: 38mm
Sound alert	+
Auto-off	5 min
Display	2.4" HD color screen, 240x320px
Operating temperature range	0... +50°C (operating), -10... +60°C (storage) / 32... +122°F (operating), 14... +140°F (storage)
Power source	rechargeable polymer lithium battery, 390mA·h 5V 1A DC adapter (not included) Type-C USB cable (included)
Dimension	63x25x139mm
Weight	138g

The manufacturer reserves the right to make changes to the product range and specifications without prior notice.

## Care and maintenance

Do not touch the sensing area of the device during measurement in order to avoid mistakes, because the human body has conducting properties. Do not exclusively rely on the detector to locate items behind scanned surfaces. Do not assume that there is no live cabling inside a wall. Always use caution when nailing, cutting, or drilling in walls, floors, and ceilings that may contain live cabling. Calibrate the device regularly following a routine schedule. Do not try to disassemble the device on your own for any reason. For repairs and cleaning of any kind, please contact your local specialized service center. Protect the device from sudden impact and excessive mechanical force. Store the device in a dry cool place. Only use accessories and spare parts for this device that comply with the technical specifications. Never attempt to operate a damaged device or a device with damaged electrical parts! If a part of the device or battery is swallowed, seek medical attention immediately.

## Battery safety instructions

The device is equipped with a built-in rechargeable lithium-ion battery. This avoids frequent battery replacement. Always switch the device off when not in use. If the battery charge is low, please recharge the device in time to ensure that the measurements are accurate. Do not overheat the battery. Do not discharge the battery completely. Only use the original charger.

## Ermenrich Warranty

Ermenrich products, except for their accessories, carry a 5-year warranty against defects in materials and workmanship.


All Ermenrich accessories are warranted to be free of defects in materials and workmanship for six months from the purchase date. The warranty entitles you to the free repair or replacement of the Ermenrich product in any country where a Levenhuk office is located if all the warranty conditions are met.

For further details, please visit: [ermenrich.com](https://ermenrich.com)

If warranty problems arise, or if you need assistance in using your product, contact the local Levenhuk branch.

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## Documents / Resources

 <p>Ermenrich Ping SM70 Stud Detector</p>	<p><a href="#">ERMENRICH SM70 Ping Stud Detector</a> [pdf] User Manual</p> <p>SM70 Ping Stud Detector, SM70, Ping Stud Detector, Stud Detector, Detector</p>
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## References

- [Levenhuk's official website in Europe](#)
- [User Manual](#)

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