



FRANKLIN SENSORS

ProSensor™ M90, M92 & M150

PROFESSIONAL STUD FINDER

IMPORTANT: READ BEFORE USING. SAVE THESE INSTRUCTIONS.

Operating/Safety Instructions

FRANKLIN SENSORS PROSENSOR M90, M92 & M150

Congratulations on selecting a Franklin Sensors stud finder – the most advanced wall sensing technology on the market. Your ProSensor incorporates advanced technology that precisely senses the surface in multiple locations simultaneously, then instantly identifies the location(s) of hidden object(s). It is quick, easy and accurate.

SAFETY RULES FOR THE ProSensor M90, M92 & M150

WARNING: Read all instructions before use. Failure to follow safety instructions may result in electric shock, fire, and/or serious injury and death.

SAVE THESE INSTRUCTIONS

WARNING: It is possible that there may be wood, metal, wiring, or other objects behind the surface that are not detected. The stud finder may also detect pipes, wires, or other objects. The stud finder is designed to detect any change in density but does not identify what type of object it detects. The illuminated LEDs may indicate the location of many different features including, but not limited to, studs, beams, water pipes, gas pipes, wires, an inconsistency in the surface material or paint, etc.

WARNING: TURN OFF all gas, water, and electric power before using any drilling or penetrating the wall.

FAILURE TO TAKE THESE AND OTHER NECESSARY PRECAUTIONS COULD RESULT IN ELECTRIC SHOCK, FIRE, AND/OR SERIOUS INJURY AND DEATH.

Temperature

If the stud finder is subject to a significant temperature change, allow it to adjust to the ambient temperature before using. The entire area of the sensor board should be at a similar temperature for best operation.

ENVIRONMENTAL CONDITIONS

Franklin Sensors stud finders will work best when maintained in the following environmental conditions:

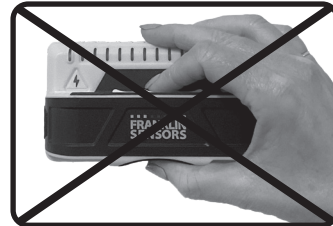
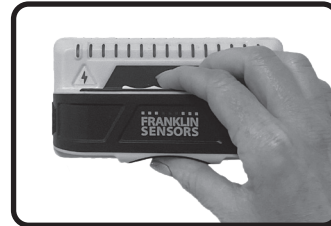
Storage Temperature	(0°F to 120°F) (-18°C to 50°C)
Storage Humidity	0% to 90% Relative humidity (non-condensing)
Operating Temperature	(32°F to 110°F) (0°C to 43°C)
Operating Humidity	0% to 90% Relative humidity (non-condensing)

OPERATING INSTRUCTIONS

Para instrucciones en español, visite <https://franklinsensors.com/support/instruction-manuals/>

TO OPERATE:

- Hold the stud finder by the handle. Do not touch the detector outside of the handle area while scanning.



- With the button depressed, you may immediately begin scanning the wall. You may press the button on or off wall. No calibration is required. As you scan, LED lights will illuminate to display the location of any hidden object.

- LEDs track the center and edges of studs simultaneously.



HEAVY TEXTURE OR IRREGULARITIES:

Franklin Sensors stud finders identify the location of studs by identifying differences in the density of the material in the wall. Consequently, areas of heavy texture and/or irregularities in the wall, can also cause the LEDs to illuminate. When this happens, you know your stud finder is doing its job. To help determine if you have actually found a stud, continue to press and hold the button and then scan the wall up and down. The LED lights will normally remain constant on a stud, whereas the LEDs will only display sporadically on a wall's irregularity.

FINDING PIPES AND WIRES:

Franklin Sensors stud finders identify the location of studs by identify differences in the density of the material in the wall. Consequently, wires or pipes that are near the surface, can also cause the LEDs to illuminate. When this happens, you know your stud finder is doing its job. To help determine if you have found a stud, continue to press and hold the button and then scan the wall up and down. The LED lights will normally remain constant on a stud, whereas wires may only make contact in a small area and pipes may have elbows and branch off which may cause LEDs to only illuminate sporadically. ALWAYS TAKE THE NECESSARY SAFETY PRECAUTIONS AND TURN OFF all gas, water and electric power before penetrating the wall.

LATH AND PLASTER

The ProSensor can see up to 1.5 inches and thus can see through most lath and plaster walls. When irregularities in plaster thickness and variations in construction materials exceed this depth, detection is not guaranteed.

TILE, FLOORING, ROOFING AND EXTERIORS

Due to the variability in thickness and density in tile, roofing and exterior materials, detection is not guaranteed.

FIRE BLOCK OR HORIZONTAL STUDS

When searching for fire blocks or horizontal studs, turn the stud finder vertically and scan up and down the wall so the sensors can find the density differences in the wall.

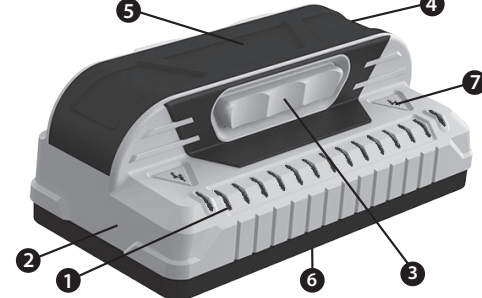


BATTERIES

DO NOT USE RECHARGEABLE BATTERIES.

The ProSensor uses 2 AAA batteries. Do not mix old and new batteries. Do not mix alkaline, standard or rechargeable batteries. **Use 1.5 volt alkaline batteries only.**

ProSensor M150



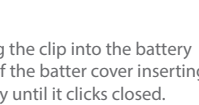
- LED Lights
- Detector Housing
- "On" Button
- Battery Cover
- Ergonomic Handle
- Sensor Board
- Live Electrical Warning™

REPLACING THE BATTERIES

- Remove the battery cover by gently pushing on the right side and then lifting. Remove both batteries and dispose of them properly. Please recycle.
- Replace with new AAA batteries.
- Close the battery cover by inserting the clip into the battery cavity, gently push the other side of the battery cover inserting the other clip into the battery cavity until it clicks closed.



When the battery voltage is low, the second LED from the right will flash. Replace with 2 new batteries.



LIVE ELECTRICAL WARNING™ – M150 ONLY

The ProSensor M150 Live Electrical Warning™ works continually while the button is depressed. When a live electrical wire is detected, the yellow lightning bolt symbol may illuminate to indicate the presence of live wires.



The ProSensor M150 uses Active Learning Technology™. When detecting live electrical wires, scan in both directions, passing over the same location multiple times, for a more accurate reading.

SENSING THROUGH DIFFERENT MATERIALS:

Moisture

The scanning surface should be clean and dry. Paint and wallpaper need to be completely dry before scanning for studs. It may take up to 2 weeks for wallpaper to dry enough to detect studs.

Foil-Backed Insulation

Although not common, foil-backed insulation can cause inconsistent readings with all electronic stud finders, including the ProSensor.

Metallic Content in Wallpaper

Wallpaper with metallic content can block the detector's signals.

STICKERS / DECALS

Do not place decals or stickers, especially those containing metal, on the sensor board, or on the stud finder in any place.

DISASSEMBLY / TEFLON PADS

Do not disassemble the stud finder or remove the teflon pads on the bottom. The stud finder will not operate correctly without the teflon pads properly in place.

DISPOSAL

Stud finders and packaging should be sorted for recycling.

FCC PART 15 CLASS B REGISTRATION

WARNING

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

LIMITED WARRANTY

Franklin Sensors warrants this product to be free from defects in material and workmanship for one year. This LIMITED WARRANTY does not cover products that are improperly used, abused, or altered. Defective products will be replaced or repaired. If a product is found to be defective within the warranty period, Franklin Sensors will, at its sole discretion, either repair or replace the defective product. This limited warranty does not apply to products that are subjected to freight damage, accident, abuse, alteration, misuse, improper repair, etc. Franklin Sensors and Franklin Sensors' authorized distributors shall bear no other liability or obligation under this warranty.

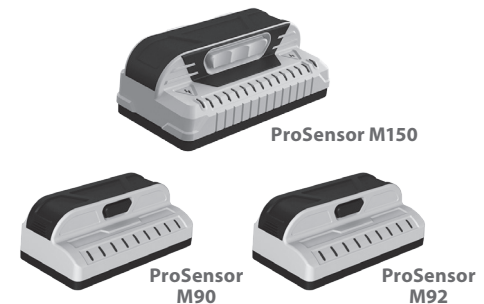
IN NO EVENT SHALL FRANKLIN SENSORS HAVE ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DAMAGE TO GOODWILL, LOSS OF TIME, INCONVENIENCE OR OTHER COMMERCIAL OR ECONOMIC LOSS, and in no event shall Franklin Sensors be liable for damages exceeding the purchase price.

In the event of a product defect, please return the product postage paid with proof of purchase to:

Franklin Sensors Inc.
Attn: Returns Department
6675 N Pollard Ln
Meridian, ID 83646
(208) 918-2403
returns@franklinsensors.com
Hours of Operation: Monday-Friday,
8 AM to 5 PM,
Mountain Time Zone

US Patents	8,476,912	8,669,772	8,736,283
	8,791,708	8,836,347	8,884,633
	10,895,657		10,613,243

US and Foreign Patents Pending.



FSM90,M92,M150E0 (3/23)

TROUBLESHOOTING

CONDITION	PROBABLE CAUSE	SOLUTION
No LED lights come on.	Weak or Rechargeable Batteries.	DO NOT USE RECHARGEABLE BATTERIES. Replace with 2 new AAA batteries. Do not mix old and new batteries.
Stud finder only works momentarily.	The "on" button isn't being held down.	Hold the "on" button down until you have completed your scan.
Difficulty starting a scan near doors and windows.	Solid headers and triple studs are often present around doors and windows. The ProSensor indicates the change in density. If all the sensors sense the same density, the LEDs will not illuminate.	Begin the scan away from the window or door, then move the stud finder to the area around the window or door. For best results, keep stud finder 3"/7cm away from wood trim, outlets, switches, etc.
The LED lights sometimes seem to light up sporadically or inconsistently.	Operator is holding the unit near the base rather than on the handle.	Only hold the unit by the handle with a finger continually pressing the button.
Inconsistent readings.	Franklin Sensors stud finders find any change in density. The sensor's job is to identify any changes in density. In the case of heavy texture, pipes and wires close to the surface of the wall or other irregularities in the wall, the LEDs may illuminate. When this happens, you know your stud finder is doing its job!	When you get a reading, continue to press and hold the button and then scan the wall up and down. The LED lights will remain constant on a stud, while irregularities will only display temporarily.