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FRANKLIN
SENSORS

ProSensor™ X700,
M70 & M72

PROFESSIONAL
STUD FINDER

**IMPORTANT: READ BEFORE USING.
SAVE THESE INSTRUCTIONS.**

Operating/Safety Instructions

FRANKLIN SENSORS
PROSENSOR X700, M70 & M72

Congratulations on selecting a Franklin Sensors stud finder – the most advanced wall sensing technology on the market. Your ProSensor X700, M70 & M72 incorporates advanced technology that precisely senses the surface in 7 locations simultaneously, then instantly identifies the location(s) of hidden object(s). It is quick, easy and accurate.

SAFETY RULES FOR
THE PROSENSOR X700, M70 & M72

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)

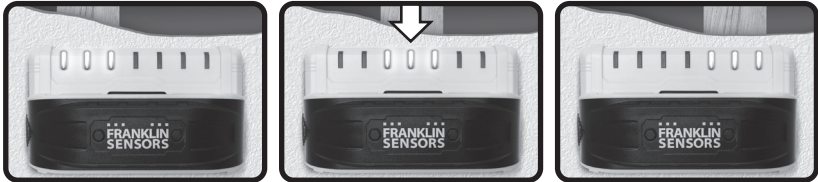
OPERATING INSTRUCTIONS

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.
- In certain models, the center LED will turn green once the precise center of the stud has been reached.



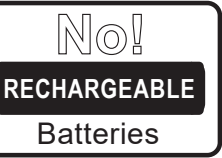
HEAVY TEXTURE OR IRREGULARITIES:
Franklin Sensors stud finders identify the location of studs by identifying differences in the density of the material in the wall. Consequently areas of heavy texture and/or irregularities in the wall, can also cause the LEDs to illuminate. When this happens, you know 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 X700, M70 & M72 can see up to 1.5 inches in real world conditions 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. Also, the stud finder may not be able to detect if the plaster uses metal mesh reinforcement.

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.

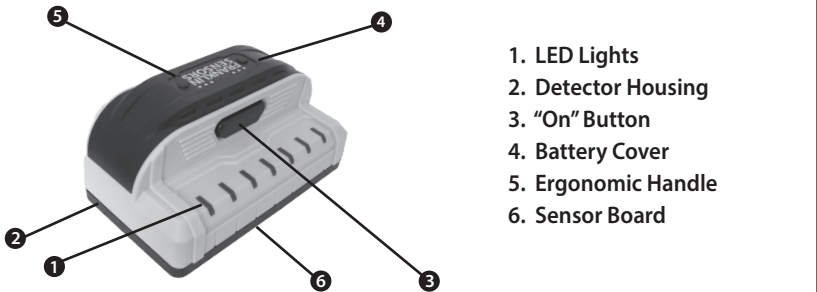


BATTERIES
DO NOT USE RECHARGEABLE BATTERIES.
The ProSensor X700, M70 & M72 uses 2 AAA batteries. Do not mix old and new batteries. Do not mix alkaline, standard or rechargeable batteries. **Use 1.5 volt alkaline batteries only.**

REPLACING THE BATTERIES
• Remove the battery cover by pushing on the raised trapezoid on the battery cover. Slide the cover to the right and lift.
• Replace with 2 new AAA batteries.
• Close the unit by replacing the battery cover and sliding it to the left until it snaps into place.

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

TROUBLESHOOTING		
CONDITION	PROBABLE CAUSE	SOLUTION
No LED lights come on.	Weak or Rechargeable Batteries.	DO NOT USE RECHARGEABLE BATTERIES. Replace with 2 new AAA, 1.5-volt alkaline 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 X700, M70 & M72 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.
	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.



SENSING THROUGH DIFFERENT MATERIALS:

Moisture
The scanned 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 X700, M70 & M72.

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this device.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help

LIMITED LIFETIME WARRANTY
Franklin Sensors Inc. offers a Limited Lifetime Warranty on all its products. The products are warranted to be free from defects in materials and workmanship for the life of the product. If a defect is found, at Franklin Sensors’ discretion, Franklin Sensors will either repair or replace the unit with an equivalent product.

The function of the products is not guaranteed. For example, for stud finders it is possible that there may be wood, metal, wiring, or other objects behind the surface that are not detected. It is also possible that stud finders may detect pipes, wires, or other objects that the user may not want to detect. The stud finders do not identify what type of object they detect. 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. This warranty does not cover incidental or consequential damage such as physical injuries, property damage, loss of time, loss of use of the product, inconveniences, or accommodations resulting from failure of the products.

Franklin Sensors shall not be liable for any special, indirect, incidental, or consequential damages or losses, whether arising from breach of warranty or based on contract, tort, reliance or any other theory. Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer.

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 Lane
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
8,791,708 8,836,347 8,884,633
10,613,243 10,663,613 10,895,657

US and Foreign Patents Pending.



X700_M70_M72.E (11/23)