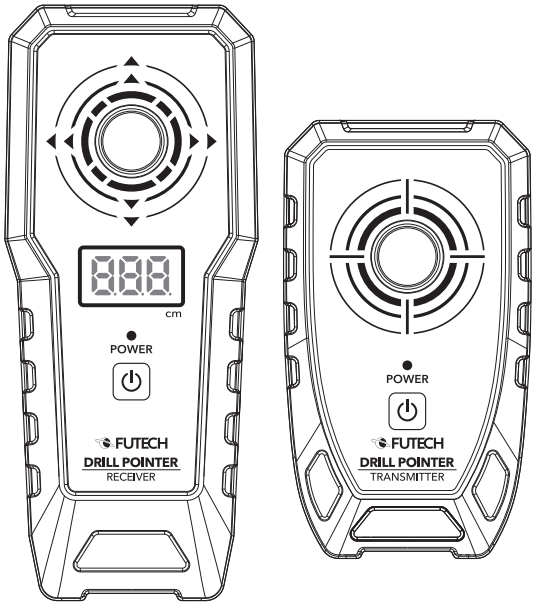
USER MANUAL

570.150 – Drill Pointer



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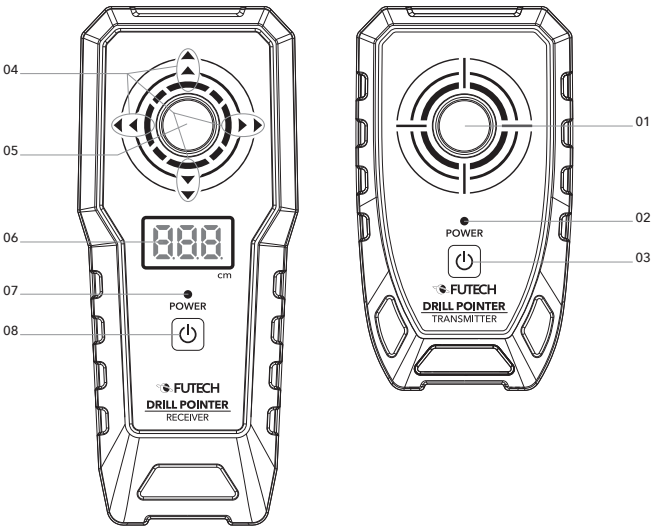
OVERVIEW



01 Marking aid opening
02 Power LED indicator
03 Power button
04 Red arrow/green rectangle LED indicator
05 Marking aid opening
06 Display
07 Power LED indicator
08 Power button

SAFETY

Please read the complete safety instructions in the booklet delivered with this device.

FIRST USE

· Remove protective films where applied.

To differentiate the transmitter and the receiver, look at the lowest side of the front of both devices. The name of the device is found there.

POWER

Type of battery for receiver: 3 x 1.5V AAA batteries

Type of battery for transmitter: 3 x 1.5V AAA batteries

When the power indicator on the transmitter or

receiver flashes, the battery power is not high enough and must be replaced.

- Before battery replacement, make sure the device is turned off.
- Remove the screw on the battery cover and remove the cover.
- Replace the batteries with new ones of the same type.
- Make sure the polarity connections are correct!
- Reinstall the battery cover and the screw.

USAGE

▪ TURNING ON/OFF

- To turn on or off the transmitter/receiver, hold the power button **[02]**/**[07]** for about 3 sec.

The power indicator on the transmitter/receiver will light as an indicator when the transmitter/receiver is on.

▪ DETERMINING DRILLING PROSITION

- Place enough of the supplied adhesive putty to each of the 4 arc-shaped indentations on the underside of the transmitter.
- Securely position the transmitter at the required drilling point on the wall or ceiling.

Make sure the marking aid opening **[01]** of the transmitter is exactly at the required drilling point and that the transmitter is parallel to the surface of the wall or ceiling.

NOTE

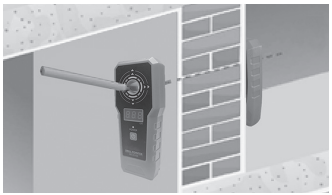
The adhesive putty can leave marks on the surface to which it is applied and may pull fragments away from it when removing it. If this may be a problem, use a suitable adhesive tape or ask a person to steadily hold the transmitter at the required drilling point.

- Turn on the transmitter and the receiver

- Place the receiver on the other side of the wall or ceiling (the floor above).
- Move the receiver along the wall or floor

surface in the respective directions shown by the receivers red arrow LED indicators **[08]**.

The green rectangle LED indicators of the receiver show whether the opening of the receiver **[06]** and the transmitter **[01]** are aligned.



When all the 4 green rectangle LED indicators **[08]** on the receiver light, the opening of transmitter and receiver are aligned. The display **[09]** of the receiver shows the distance between the transmitter and the receiver. This reading indicates the drilling depth.

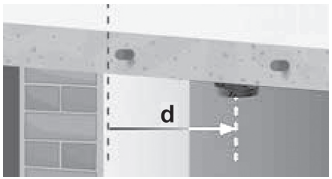
- Mark the drilling point on the wall, floor or ceiling at the center of the opening of the receiver.
- Remove the receiver and transmitter from the wall, floor or ceiling.

NOTE

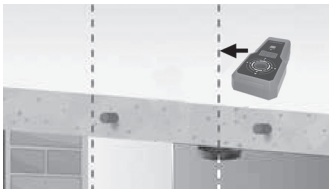
Before drilling on wall or ceiling, make sure there are no cables, pipes, metallic objects or other objects on and near the drilling path.
The receiver must always be positioned parallel to the transmitter.

▪ OFFSET MEASUREMENT

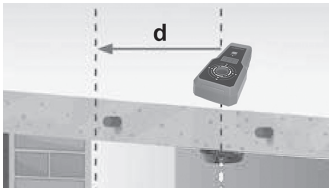
If the required drilling position is located at a wall corner or immediately adjacent to concrete walls containing steel reinforcement or other metal objects, locating the drill bit exit will be influenced by the metal. To avoid this influence from metal, it is recommended that the actual measurements be made at points which are offset from the required drilling point by a distance. In those situations, execute the steps described and shown below.



- Move the transmitter in an area where there is no metal and measure the distance from the transmitter to the required drilling point.



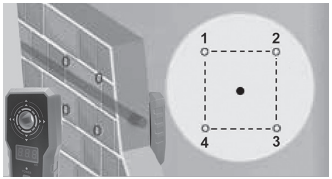
- Determine the position of the transmitter with the receiver on the other side of the wall



· Transfer the distance measured in the first step in the direction of the required drilling point.

▪ MULTIPOINT MEASUREMENT

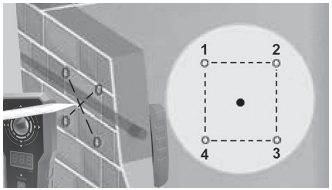
If there is a metal object near the required drilling point, the location of the drill bit exit point will be affected. In this case, you can use the multipoint measurement.



· Draw a square using the required drilling point as the center of this square. Make measurements respectively at the 4 vertexes of this square.

· In each measurement, place the transmitter at a vertex of the square and then use the receiver to determine the position of the transmitter on the other side of the wall.

· When the apertures of the transmitter and receiver are aligned, make a mark at the center of the aperture of the receiver.



· The correct drilling point is located at the geometric center point of the 4 marks made.

NOTE

Interference caused by metal can prevent the drilling point from being located.

Changing the tolerance.

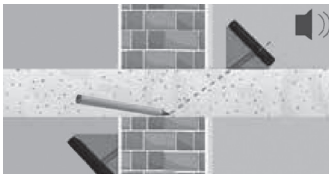
· The tolerance of the receiver can be increased by briefly pressing its power key. The setting is confirmed by a long beep.

· If you briefly press the power key again or switch off the receiver, the receiver will revert to normal operating mode.

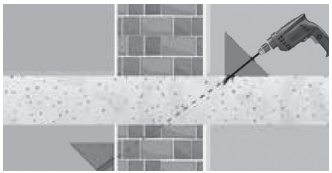
▪ LOCATION OF DRILL BIT EXIT POINT OF OBLIQUE HOLE

If accurate positioning and alignment is not possible, for example when drilling in corners,

the transmitter and receiver can be aligned using two identical wedge-shaped supports. The angles of the wedges must match the required drilling angle.



· Place a wedge under the transmitter and another wedge under the receiver. Make sure the marking aid opening of the transmitter **[01]** and receiver **[06]** are aligned and the center line of both openings points in the direction of the required drilling point.



· After location of the drill bit exit point, remove the transmitter and receiver.

· Then you can drill the hole.

MAINTENANCE

Periodically wipe the case with a damp cloth and a little mild detergent. Do not use abrasives or solvents.

Do not use the instrument until it is totally dry.

SPECIFICATIONS

	RECEIVER	TRANSMITTER
LED Indicators	13 LEDs	1 LEDs
LED display	3x 7 segments	No
Warning signals	Yes	No
Measuring depth: positioning	2-150 cm well thickness	-
Measuring depth: depth display	2-200 cm drilling depth	-
Accuracy: measured depth	Typically 5%	-
Accuracy: position-finding*	Without steel reinforced walls: ± 3 mm With steel reinforced walls: ± 10 mm	- -
Auto. Power Off	10 minutes	-
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C	-20° ~ 60°C
Humidity (storage/operating)	85% RH	85% RH
Max altitude	2000 m	2000 m
Radio module operating data	Frequency band: 1 ISM band: 433.95 MHz Bandwidth: 0.05 MHz Receiver category: 3	Frequency band: 1 ISM band: 433.95 MHz Bandwidth: 0.05 MHz Transmitting power: < -13dBmW
Power supply	3x 1.5V Alkaline AAA	3x 1.5V Alkaline AAA
Size	182 x 76 x 30 mm	134 x 76 x 30 mm
Weight	About 212g (including batteries)	About 166g (including batteries)

(* @ temperature 21°C, wall thickness 200mm)

USER MANUAL

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