

WÖHLER

Operation Manual
Locator

EN



Wöhler L 200



Contents

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1 General Information

1.1 Operation Manual Information

This operation manual allows you to safely work with the Wohler L 200 Locator. Please keep this manual for your information.

The Wohler L 200 Locator should be used by trained professionals for its intended use only.

Liability is void for any damages caused by not following this manual.

1.2 Notes in this manual



ATTENTION!

Not following this note can cause permanent damage to the monitor.



NOTE!

Usefull information

1.3 Proper use

The Wöhler L 200 Locator is designed for the localization of the Wöhler camera heads VIS Ø 40 mm und Ø 26 mm.

1.4 Features

Device	Scope of supply
Wöhler L 200 Locator	Locator
	Headphone
	USB Power Pack with Micro-USB cable
	12 pieces of yellow lithographic chalk
	telescopic pole
	Plastic case

1.5 Transport

To prevent damage to the Locator use the original carrying case when transporting.

For the transport the battery can be locked by an accu blocking switch. The switch is located on the bottom of the locator, see fig. 1, part 7.

- Deactivate the battery by pushing the switch carefully to the left with a small screw driver.
- Activate the battery by pushing the switch carefully to the right with a small screw driver.

1.6 Information on disposal



Electronic equipment does not belong in domestic waste, but must be disposed in accordance with the applicable statutory provisions.

You may hand in any defective batteries taken out of the unit to our company as well as to recycling places of public disposal systems or to selling points of new batteries or storage batteries.

1.7 Manufacturer

Wöhler Messgeräte Kehrgeräte GmbH

Schützenstr. 41

33181 Bad Wünnenberg

Tel.: +49 2953 73-100

Fax: +49 2953 73-250

E-Mail: mgkg@woehler.de

2 Technical Data

Description	Details
Transmitter frequency	8.9 kHz
Output impedance	32 Ohm
Depth up to which the transmitter signal can be located	3 m in a ground that is not too hard
Power supply	3.7 V Lithium-Ion re-chargeable battery
Battery time	24 h
Charging time	2.5 h
Storage temperature	-10 °C to + 40 °C
Operation temperature	+0 °C to 40 °C
Degree of protection	Waterproof to IP 40
Dimensions	31 x 14 x 7 cm
Wheight	605 g

3 Design and function

3.1 Locator components

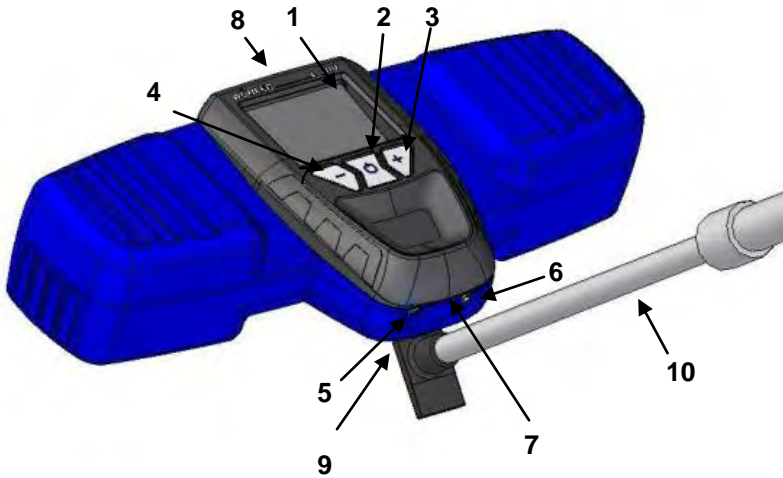


Fig. 9: Locator components

Diagram key

- 1 Display
- 2 On/Off key
- 3 Increase volume key
- 4 Reduce volume key
- 5 Micro USB port for charger adapter
- 6 Headphone socket
- 7 Accu blocking switch
- 8 Compartment for lithographic chalk (concealed)
- 9 Slot to secure the telescopic pole (rear side)
- 10 Telescopic pole

3.2 Display

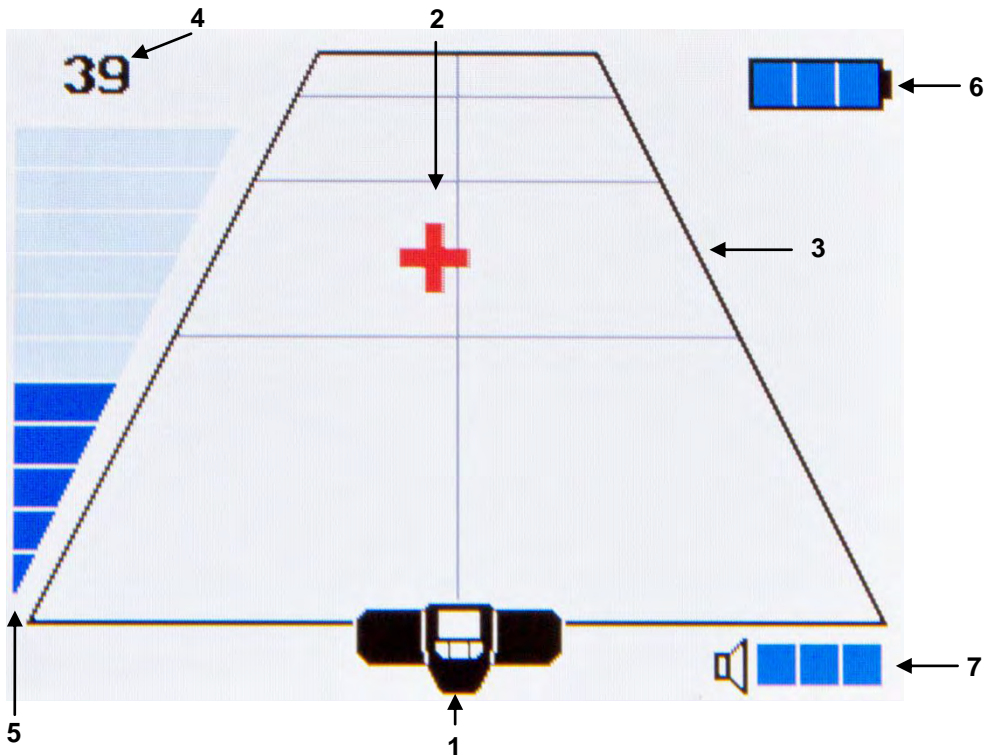


Fig. 10. Display

- 1 Locator icon to indicate position of user
- 2 Cursor to indicate position of camera head
- 3 Virtual plane
- 4 Intensity indicator (number)
- 5 Intensity indicator (bar graph)
- 6 Battery status indicator
- 7 Volume indicator

3.3 Function

Wöhler VIS Ø 40 mm and Ø 26 mm camera heads are equipped with a transmitter coil that transmits signals at a frequency of 8.9 kHz. Three coils inside of each handgrip of the Locator measure magnetic fields. When the user holding the Locator approaches the camera head the measured magnetic field gets stronger.

By calculating the difference in intensity of the signals received from the different coils, the Locator is able to indicate in which direction the camera head is located as seen from the Locator.

A cursor in the display and an acoustic signal enable the user to locate the exact position of the camera head in the pipe.

4 Activating the battery



0 → I

- Before using the Locator for the first time activate the battery by pushing the locking switch carefully to the right. Use a tapered object.

Fig. 11: Sperrschalter auf der Unterseite des Wöhler L 200

5 Charge level and charging the rechargeable battery



The charge level of the rechargeable battery is indicated in the top right of the display.



NOTE!

The Locator powers off automatically when the battery charge is too low. If that is the case, the red LED framing the On/Off key flashes. It is possible to power the Locator on again as soon as a charger is connected.

If the rechargeable battery symbol is not filled, proceed as follows to recharge the battery:

- Plug the USB connector of the USB cable - included in the scope of supply - into the USB port (Fig. 1, position 6), then connect the power pack to the mains power supply.

The lower part of the light framing the ON/OFF key flashes red while the battery is being re-charged.

The rechargeable battery is fully recharged when the red LED lights up continuously.



NOTE!

The USB cable is a standard micro USB cable.

6 Operating the Locator



CAUTION!

Protect the Locator against moisture.



NOTE!

If possible, power off any electronic/electrical devices in the immediate area where you intend to use the Locator as they can affect the magnetic field.

6.1 Powering the Locator on and off

- To power on the Locator, briefly press the On/Off key (Fig. 1, position 2).
- When the Locator is powered on, the top part of the light framing the On/Off key lights up green.

The display powers up after about two seconds.

- To power off the Locator, press and hold the On/Off key for about one second.

6.2 Adjusting the volume / using headphones

An acoustic signal provides a clear indication of the distance between the Locator and the camera head. The closer the Locator gets to the camera head, the more intensive the signal becomes.

- Press the + key to increase the volume.
- Press the – key to reduce the volume.

The acoustic signal is only available through the headphones as soon as you connect headphones to the headphone socket of the Locator.

6.3 Localizing the camera head

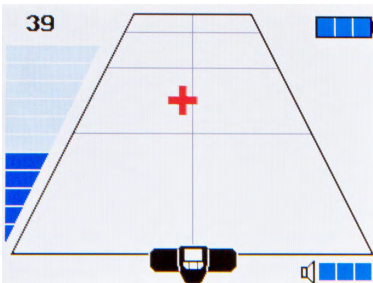


NOTE!

It is possible to switch off the transmitter in the camera heads VIS 250 and VIS 350. When working with this system, make sure that the transmitter is switched on before beginning the localizing procedure (please refer to the operating manual Wöhler VIS 200/250/300/350, chapter "Making settings via the menu").

The transmitter in the camera heads Wöhler VIS 200/300 is permanently switched on.

6.3.1 Localizing visually



The position of the transmitter is depicted on the virtual plane immediately after the Locator is powered on.

The intensity indicator indicates the strength of the signal being received on a scale between 0 and 100.

Fig. 12. Localizing the camera head

The longitudinal axis of the virtual plane symbolizes the distance to the transmitter from the Locator.

The direction in which the Locator needs to be guided to reach the position of the camera head is also indicated on the virtual plane.

The position of the camera head has been located when the cursor is positioned directly above the Locator icon.

6.3.2 Localizing acoustically

At the same time, the intensity of the acoustic signal increases as the Locator gets closer to the transmitter. The pitch of the tones gets higher and they are repeated in increasingly rapid succession.

6.4 Marking the position of the camera head

Once the camera head has been localized, it is possible to mark its position using the yellow lithographic chalk supplied.

- Push open the cover of the compartment on the front of the housing (Fig. 1, position 7).
- Take out the lithographic chalk.
- The telescopic pole is a useful assistant when localizing the camera head concealed in the ceiling or in pipes deep in the ground or high up.

6.5 Working with the telescopic pole



Fig. 13: Localizing the camera head underground



Fig. 14: Rear of the Locator: the arrow points towards the slot used to secure the telescopic pole.

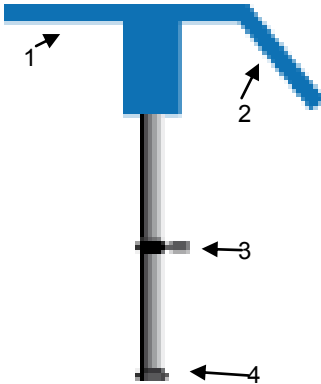


Fig. 15: Upper part of the telescopic pole

- To be able to hold the Locator flat against the wall, slide the straight part of the holder (1) into the slot on the rear of the Locator

or

- To be able to view the display as you work, slide the angled part of the holder (2) into the slot.
- Undo the clamp (3) on the telescopic pole. Pull out the telescopic pole to the desired length and then tighten the clamp (4).



Fig. 16: Locator secured to the angled part of the holder (2) of the telescopic pole – the display is clearly visible.

7 Faults

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Fault	Possible cause	Remedy
It is not possible to power on the Locator	Battery is not activated.	Activate battery, see chapter 4.
	Rechargeable battery is flat	Recharge battery
Intensity indicator indicates presence of camera head, although it cannot be in close proximity.	Interference from electronic/electrical devices	Power off or remove from the vicinity any electronic/electrical devices.

8 Warranty and Service

8.1 Warranty

Each Wohler L 200 Locator will be tested in all functions and will leave our factory only after extensive quality control testing. If used properly, the warranty period for the Wohler L 200 will be 12 month

This guarantee does not include the costs for transport and packing material in case of repair.

Service by non authorized personnel or making modifications to the Analyser voids any warranty.

8.2 Service

We see SERVICE as a very important element in our business. That is why we are still available to you even after the guarantee period has expired.

- An immediate repair will be carried out if you bring your instrument to us in Bad Wünnenberg.
- If you send us the instrument, it will be returned to you by our delivery service after repair in just a few days..
- You can obtain immediate help from our engineers by telephone.

9 Declaration of conformity

The manufacturer:

WÖHLER Messgeräte Kehrgeräte GmbH
Schützenstr. 41, D-33181 Bad Wünnenberg

declares that the product:

Wöhler L 200 Locator

complies with the following requirements for conformity and electromagnetic compatibility:

EN 55011
EN 61326-1