

USER MANUAL

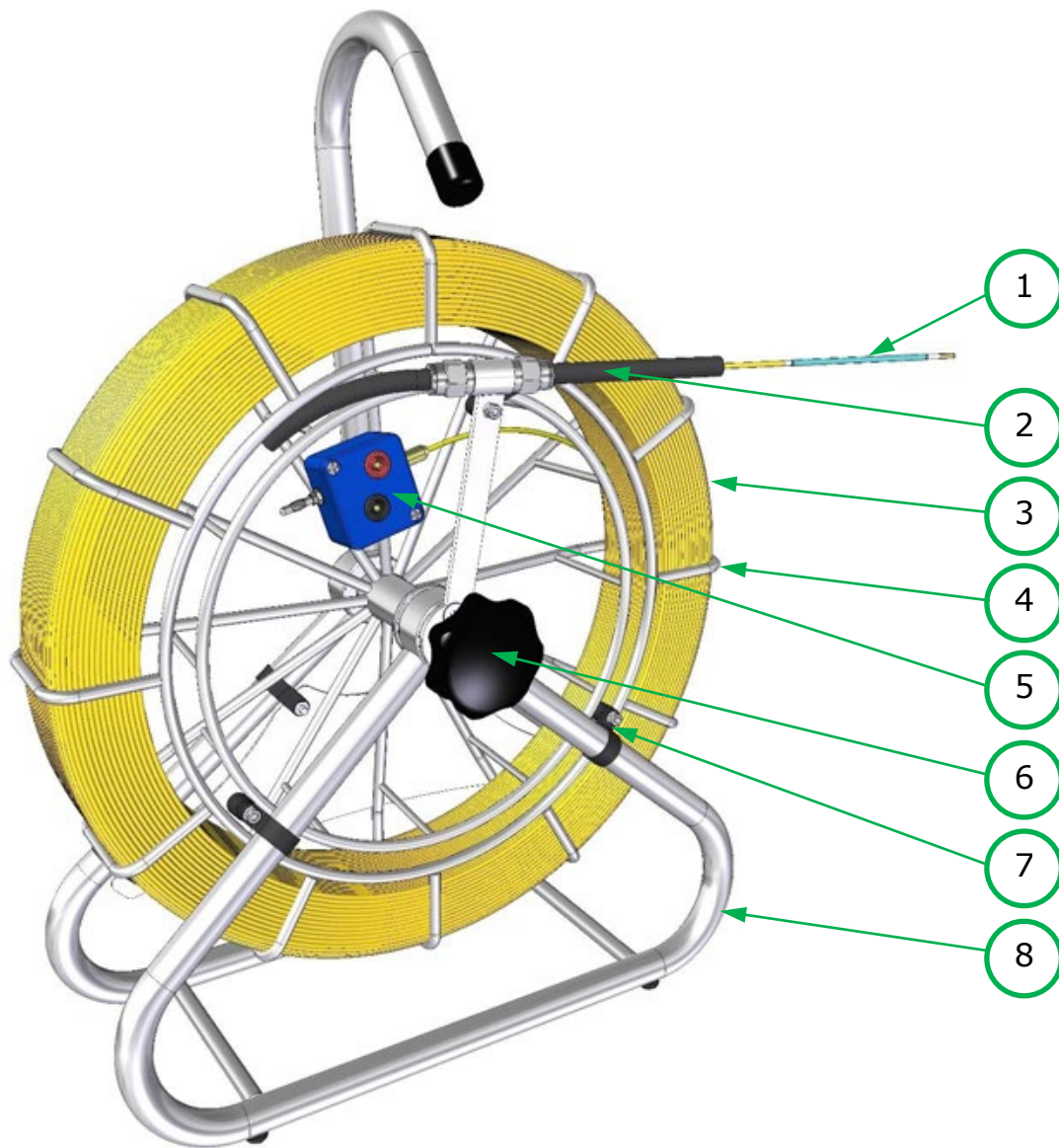
X-LOC MICRO

VERSION EN 1 / 2025



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1	Probe winding	Enables optimised end point determination
2	Rod guide	Can be connected directly to the microduct with connectors
3	Locating rod	Ø 2.5mm - 250m enables precise route localisation
4	Basket	Smooth-running special basket made of galvanised steel
5	Connection box	Connections for the terminals of the transmitter and the earthing cable
6	Brake handle	To fix the basket for transport
7	Belt scraper	Holds the rod securely in the basket
8	Frame	Sturdy tubular frame made of galvanised steel

Accessories:

2x contact adapter for connecting the transmitter terminals to the connection box

1x earthing cable



The microtube locating system can be used in conjunction with all commercially available locating devices (transmitter + receiver). (33kHz recommended)

Follow the operating instructions for the locating device used.

- 1.** lay the microtube locating system on its side. (open basket side facing upwards)
- 2.** release the brake (star grip).
- 3.** pour lubricant, e.g. Glit®Air, into the empty pipe and insert the locating rod.
Thanks to the lubricant, longer distances can be easily inserted by hand without any aids.
- 4.** (Make sure that the basket runs cleanly and that the rod does not get caught)
- 5.** push the belt in until it is blocked.
- 6.** Connect the transmitter but do not switch it on yet.
- 7.** Connect the red terminal of the transmitter to the contact adapter (red) of the connection box.
- 8.** connect the black terminal of the transmitter to the contact adapter (black) of the connection box.
- 9.** connect the earthing cable to the side plug of the connection box and clamp it to the earth spike.
- 10.** insert the ground spike as far away as possible at a 90° angle to the track.
- 11.** if an earth spike cannot be used (urban environment), connect a rainwater downpipe, hydrant, fence or similar installation with good earthing.
- 12.** Switch on the transmitter and set to low signal strength, continuous signal.
- 13.** after switching on, the sound of the transmitter becomes deeper. To check, the earthing can be removed to hear a change in the pitch of the transmitter.
- 14.** set the receiver to 33kHz, hold the receiver at 90° to the track and search for the maximum signal level over the track. At the start of the track, set the sensitivity to the centre display.
- 15.** walk the course of the track.
- 16.** 15 Ensure that you are not following a skipped signal.



- 17.** follow the course of the track, if the signal becomes weaker, the sensitivity can be increased slightly.
- 18.** When the signal disappears, you have passed over the blockade or the end of the band.
- 19.** Go back along the track until a signal can be measured again.
- 20.** Then hold the receiver blade parallel to the track and slowly follow the track forwards until a short but strong signal appears.
- 21.** The signal is only present directly above the end of the belt (winding) when the receiver is turned parallel. The signal is only present on the track when the receiver is turned 90°.



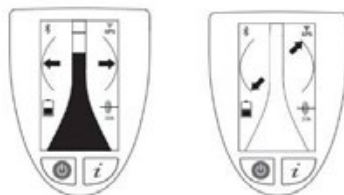
Notes:

- Caution, the tip of the rod with the probe winding is sensitive and must be protected from damage.
- Caution, the rod is sensitive to breakage. The minimum bending radius must not be less than **140 mm**.
- Good earthing is the basis for good measurement results.
- Observe the operating instructions for the respective locating device to prevent the signal from jumping over to other cables and lines.

Signal for route and point locating:

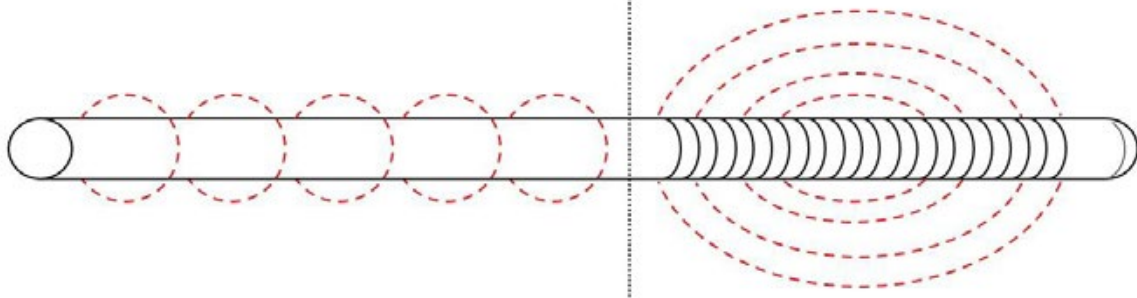
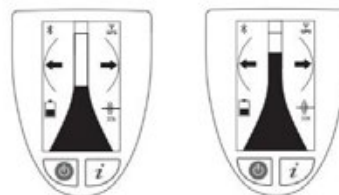
**Route locating
(whole rod)**

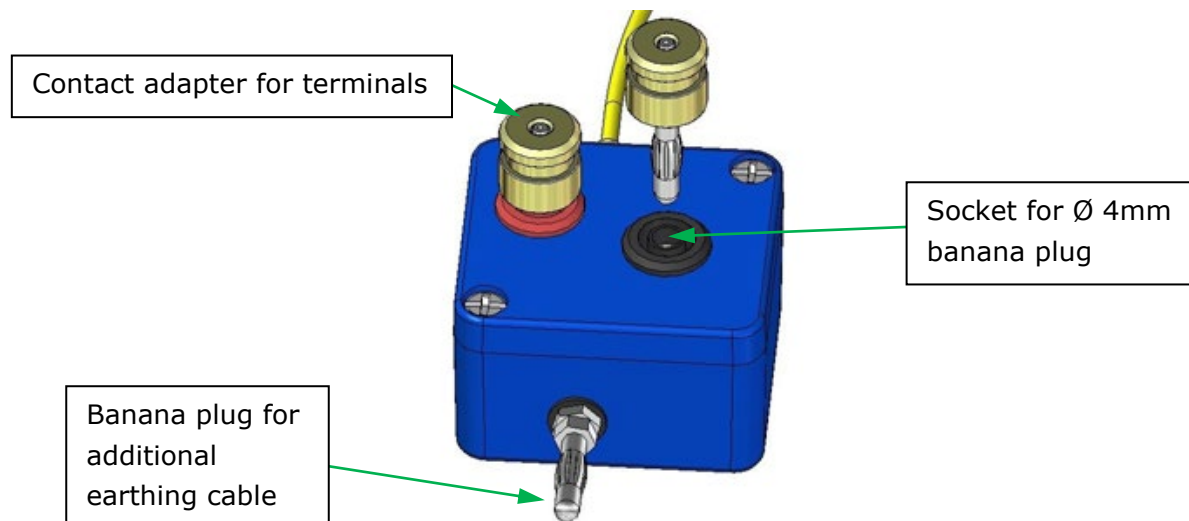
Streckenortung
(Gesamtes Band)



**Route locating
(Reel rod tip)**

Punktortung
(Spule Bandspitze)



**Connection box:**

Notes: When using large terminals in conjunction with the contact adapters, make sure that the terminals do not touch and do not make electrical contact with each other.