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Duct Sondes

- For tracing ducts, pipes and sewers and their blockages
- Smallest in the market: Diameters starting from 4.6mm
- Transmitting frequencies: 33kHz, 512Hz and 10kHz



Test equipment for telecom and electricity professionals since 1968.

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Small microduct sondes

The smallest sondes in the industry are the MPL-series sondes. They are especially intended for calibrating fiber optic micro ducts and locating their blockages e.g. before jetting fibers. Sondes are jetted in a duct equipped with a shock absorber and calibrating head or mounted to the tip of a micro cable. Bigger MPL sondes can also be mounted to a push rod using the M5 or M6 female tread of their battery compartment.

Microduct sondes have flexible construction which helps them pass duct curves.

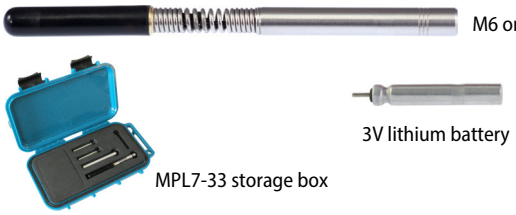


NanoSonde MPL4-33 (ø4.6 mm)



Basic setup: *MPL4-33 microduct sonde, M3.5 fitting, 2 pcs 3V lithium batteries, spare battery cap, plastic storage box, quick user quide.*

MicroSonde MPL7-33 (ø7.5 mm)



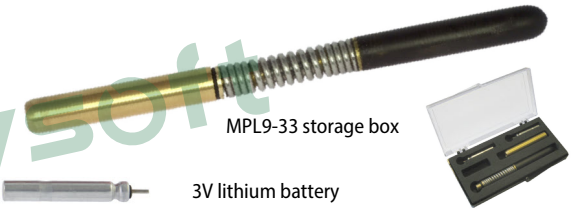
Basic setup: *MPL7-33 microduct sonde, battery compartment with M6 (standard) or M5 mounting, 2 pcs 3V lithium batteries, plastic storage box, user manual.*

MicroSonde MPL6-33 (ø6.4 mm)



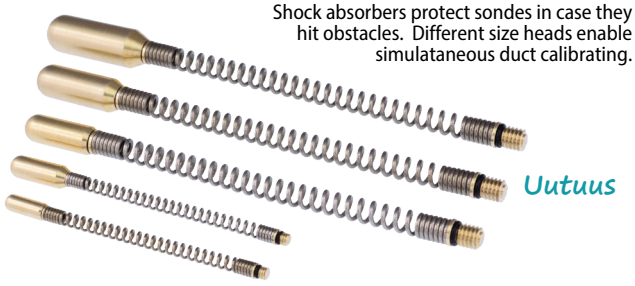
Basic setup: *MPL6-33 microduct sonde, battery compartment with M5 mounting, 2 pcs 3V lithium batteries, plastic storage box, user manual.*

MiniSonde MPL9-33 (ø9 mm)



Basic setup: *MPL9-33 microduct sonde, battery compartment with M6 (standard) or M5 mounting, 2 pcs 3V lithium batteries, plastic storage box, user manual.*

Shock absorbers and other accessories



Shock absorbers protect sondes in case they hit obstacles. Different size heads enable simulataneous duct calibrating.



MPL6-Bat: Spare battery kit (10 pcs) for MPL4-33 and MPL6-33 sondes



MPL9-Bat: Spare battery kit (10 pcs) for MPL7-33 and MPL9-33 sondes



MPL7-M5, battery compartment with M5 mounting



MPL9-M5, battery compartment with M5 mounting

Microduct sonde versions and features

Model	Sonde diam. / length	Frequency *)	Min. micro duct diam.	Range in free air **)	Range in cast iron duct	Battery type	Battery life	IP / IK code
MPL4-33	4.6 / 94 mm	33 kHz	6 mm	2.3 m	0 m	CR/BR425	9 h	IP67 / IK02
MPL6-33	6.4 / 84 mm	33 kHz	8 mm	2.3 m	0 m	CR/BR425	9 h	IP67 / IK03
MPL7-33	7.5 / 114 mm	33 kHz	10 mm	5.1 m	0 m	CR/BR535	6 h	IP67 / IK07
MPL9-33	9.0 / 138 mm	33 kHz	12 mm	5.7 m	0 m	CR/BR535	6 h	IP67 / IK07

**) 33kHz is the standard frequency and compatible with most receivers. 10kHz sonde versions still available, contact us for more information.*

***) Indicated ranges are typical tracing distances with the Vesala CL43 receiver. Maximum range is usually longer. 33kHz frequency does not work with metal ducts.*

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Sondes for heavy use

PL18 sondes are powerful and robust. They can be used to locate ducts, conduits and sewers with a minimum Ø21 mm and their blockages. PL18-33 is ideal for non-conductive ducts, such as plastic and concrete. PL18-05 works also with cast iron ducts and limitedly with ducts made of other metals such as stainless steel.

PL42-05 is most powerful transmitter particularly for metal ducts.

These sondes have an M12 thread in their battery compartment for push rods. PL-MSA mounting adapter (accessory) is available for rods with M5 and M10 mounting.

For PL18 sondes an M10 male threaded battery compartment is also available. The PL18-FM flexible mounting adapter (accessory) enables PL18-sonde pass through corners. With PL18-FM it is also possible to use M6 threaded rods.

PL18 sondes are packed in a handy plastic storage box with one lithium battery. PL42-05 is packed in a small carrying/storage case including 8 pcs LR6 batteries.



PL18-FM and PL18-05

MegaSonde PL42-05 (ø42 mm)



Basic setup: *PL42-05 duct sonde, battery compartment with M12 mounting, 8 pcs LR6 1.5V alkaline batteries, plastic carrying/storage case, user manual.*

Sonde PL18-33 (ø18 mm)





PL18-33 storage box

Basic setup: *PL18-33 duct sonde, battery compartment with M12 mounting, 1 pc 3.6V lithium battery, plastic storage box, user manual.*

Sonde PL18-05 (ø18 mm)





PL18-05 storage box

Basic setup: *PL18-05 duct sonde, battery compartment with M12 mounting, 1 pc 3.6V lithium battery, plastic storage box, user manual.*

Adapters and accessories



PL-MSA, mounting adapter, from M12 to M10 and M5

New



PL18-M10M, battery compartment with M10 male thread



3.6V lithium spare battery (for PL18 sondes)

PL18-FM flexible battery compartment/mounting adapter, M6 and M12 thread

Duct sonde models & versions and features

Model	Sonde diam. / length	Frequency *)	Min. direct duct diam.	Range in free air **)	Range in cast iron duct	Battery type	Battery life	IP / IK code
PL18-05	18 / 110 mm	512 Hz	21 mm	5.3 m	3.5 m	LS14250	8 h	IP68 / IK08
PL18-33	18 / 85 mm	33 kHz	21 mm	10 m	0 m	LS14250	20 h	IP68 / IK08
PL42-05	42 / 234 mm	512 Hz	50 mm	13 m	8.4 m	8 x LR6	5 h	IP68 / IK08

**) 512Hz is standard frequency for metal ducts. 33kHz frequency does not work with metal ducts. 10kHz sonde versions still available, contact us for more information.*
***) Indicated ranges are typical tracing distances with Vesala the CL43 receiver in free air or from cast iron duct. Maximum range is usually longer.*

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Where and how to use duct sondes

MPL microduct sondes in particular can be used for duct calibrating : Sonde and a shock absorber are first jetted through the duct to ensure that the duct is OK for jetting a fiber . If the sonde gets stuck , it can be located above ground accurately with a receiver.

Larger cable ducts, conduits, pipes and sewers and their blockages can be located with PL18 and PL42 duct sondes and compatible receivers. Exact locating considerably saves working time and helps avoiding unnecessary excavation.

The suitable sonde is chosen according to the task: The bigger sonde can be used, the more robust it is and the longer tracing distance it enables. Big sondes are usually pushed into a duct with a push rod whereas jetting with compressed air is the typical method with microduct sondes.



Micro duct calibration with a sonde and shock absorber



Locating cast iron duct using 512Hz sond

Transmitted frequencies & duct materials

- **33kHz** (32.768kHz) frequency of the black sondes is very suitable for locating non-conductive ducts. It is compatible with CL43 receiver and other brand 33kHz locators.
- **512Hz** frequency (green sondes) is intended to be used especially with cast iron and stainless steel ducts, though other duct materials can be used too. CL43 is the best choice for the receiver but other brand 512Hz receivers can be used as well.
- **10kHz** frequency (red sondes) is compatible with many older receivers. 10kHz sondes are to be discontnued so check for availability. 10kHz is suitable for locating non- conductive ducts.

Receiver for sonde locating

CL43 is a handy and affordable locator which can be equipped with a selection of sondes and probes according to customer preference. CL43 works with all sonde frequencies.

By adding the CTT33 transmitter to the equipment, CL43 locator can be used as a full featured cable locator.



CL43 case (extra accessories included)



CL43 receiver is very simple to use

Push rods

From you can also get a suitable push rod for your sonde. Rods are available in various lengths and rigidities and they typically have an M5, M6 or M12 threaded fitting to sonde.



Exact location saves unnecessary digging



Contents subject to change without notice.