Locating Devices

Locating Devices

for point and route location

for route location

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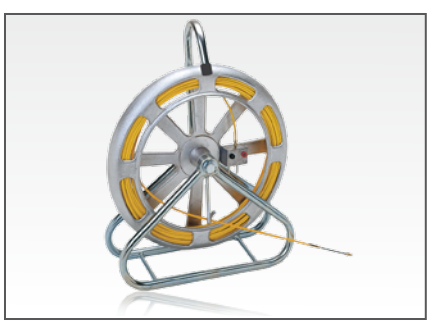
To repair and recondition pipes and cables underground can be a costly, time consuming operation. Any company undertaking an underground engineering contract needs to ensure that the routing of any **shaft can be quickly and safely identified**.

Finding non-conductive pipes is significantly simplified and often, for the first time, made feasible by using the **KATIMEX® locating systems**.
At the centre of the unit is the **Polykat® fibreglass profile**, which has the benefit of an extremely high thrust stability allied to a small radius of curvature. The Polykat® fibreglass profile contains one or more **copper wires** that emit a **locatable signal** over the entire band length via the connection of a high frequency transmitter. The signal emitted can be picked up to a depth of **several meters** dependant on the receiving equipment fitted and the local conditions.

Units with a permanently fixed sonde can also be used for **locating end points** where there is a pipe fault, different diameters of Polykat® fibreglass profile are available for various pipe diameters and the profile can be supplied in lengths up to 300 m.

Typical areas of application where the **KATIMEX® Locating Equipment** is suitable include all types of **underground construction**, for example **fresh water and sewage pipelines, cable laying and repairing and drainage and dump work**.

The KATIMEX® locating systems are now being **used extensively in domestic installations** and repair to determine the course of pipe work or to locate faults.

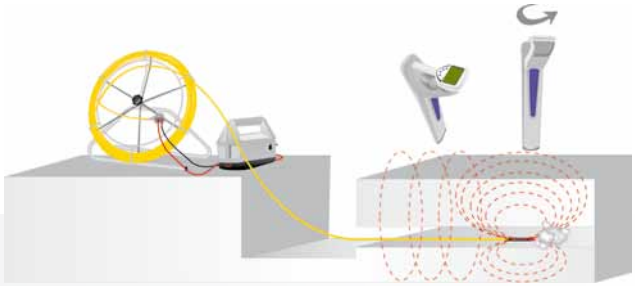


KATIMEX Cielker GmbH · Bahnhofstr. 50 · 54584 Jünkerath
Tel +49 (0) 65 97 92 77-0 · Fax +49 (0) 65 97 92 77-40 · eMail info@katimex.de

Locating Devices

Technical Information:

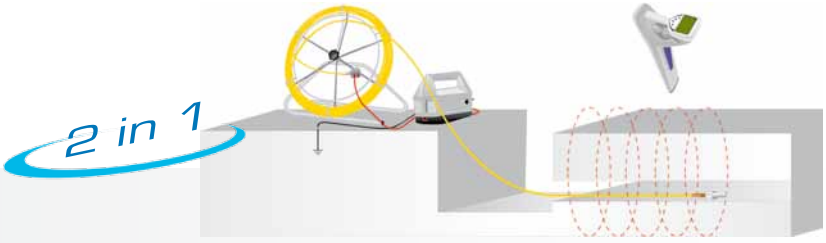
KATIMEX® locating systems can be operated with all standard transmitting and receiving equipment that works in the kHz range. The transmitter is connected to the equipment via the connection box by means of banana jacks or terminals. The locating depths and levels of accuracy are influenced primarily by the equipment specific data of the location or cable-finding equipment (transmission power, sensitivity of the receiver) and by local circumstances (structures and nature of the soil/walls, interfernce from other power sources etc.). KATIMEX® offers two versions of locating systems. These versions are independent of the length and thickness of the fibreglass rod.



Locating Devices
for point and route location

Point and route analysis can be primarily undertaken using this universal locating system. A sonde is attached to the equipment at the beginning of the fibreglass rod which can be located easily thanks to a particularly strong magnetic field. Point location is used for locating defective points in pipeline systems such as blockages, sunken sections of pipe etc. The transmitter is connected to the connection box via two cables (see illustration). Route location is used for tracking entire pipe courses. The transmission takes place along the entire length of the fibreglass rod. This version has the advantage compared with simple „pig transmitters“ that only one person is required for locating work and losing the signal is excluded.

Product advantages at a glance:
- NO SIGNAL LOSS - frequent mistake with batterie driven transmitter
- **suitable for spot and route locating**
- 1-person handling
- compact steel frame with Polykat®



Locating Devices
for route locating

Route location can be used for tracking of entire pipe courses.
The transmission cable is connected between transmitter and locating rodder. The second connection of the transmitter is earthed (see illustration). This fibreglass rod contains one or more copper wires that emit a **locatable signal** over the **entire band length** via the connection of the transmitter. This signal can be picked up, dependent on the transmission and receiving equipment and local and structural circumstances, **down to a depth of several meters**.

Product advantages at a glance:
- NO SIGNAL LOSS - frequent mistake with batterie driven transmitter
- **2in1 - use as a cable pulling device and as a route locating unit**
- 1-person handling
- compact steel frames with Polykat® fibreglass profile

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Locating Devices point and route locating

Max with Sonde System

Locating Device for Point and Route Locating
Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires
sonde for end point determination, connection box with socket and pins for two connections, galvanized steel frame with aluminium reel Ø 400 mm

rod length	rod-Ø	weight	art.-no.
30 m	4.5 mm	5.1 kg	104054
50 m	4.5 mm	5.8 kg	104055
60 m	4.5 mm	6.0 kg	104056
80 m	4.5 mm	6.7 kg	104058

Spare Rod Max/Sonde

Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires for point and route location
sonde for end point determination, connection box with socket and pins for two connections
- easy reeling into existing devices

rod length	rod-Ø	weight	art.-no.
30 m	4.5 mm	1.0 kg	104063
50 m	4.5 mm	1.6 kg	104065
60 m	4.5 mm	2.0 kg	104066
80 m	4.5 mm	2.6 kg	104067

Jet with Sonde System

Locating Device for Point and Route Locating
Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires
sonde for end point determination, connection box with socket and pins for two connections, galvanized steel frame and reel Ø 600 mm

rod length	rod-Ø	weight	art.-no.
30 m	7.4 mm	7.5 kg	104070
60 m	7.4 mm	8,0 kg	104073
90 m	7.4 mm	11.7 kg	104076
120 m	7.4 mm	13.8 kg	104077

Spare Rod Jet/Sonde

Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires for point and route location
sonde for end point determination, connection box with socket and pins for two connections
- easy reeling into existing devices

rod length	rod-Ø	weight	art.-no.
30 m	7.4 mm	2.1 kg	104078
60 m	7.4 mm	4.2 kg	104080
90 m	7.4 mm	6.3 kg	104082
120 m	7.4 mm	8.4 kg	104084

Sondesystem

Sondesystem
Transmitter for tracking non-metallic conduits and pipes.
Battery-operated, with thread M10. In combination with M12/M10 adapter suitable for all Cablejet and Pipe Eel devices with external M12 thread.

type	max. depth	diameter	weight	art.-no.
Transmitter	up to 4.0 m	18 mm	0.10 kg	104047
Transmitter	up to 5.0 m	39 mm	0.20 kg	104068
Adapter Ø 18 mm		22 mm	0.03 kg	104048
Adapter Ø 39 mm		42 mm	0.12 kg	104069

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Locating Devices for route location

Kati® Blitz 2in1

2in1 concept: cable pulling device with detection function
Polykat® fibreglass profile Ø 3,0 mm with integrated copper wires
fitted with rod end with external M5 thread and attached flexible guide head
Ø 7 mm, integrated slip ring for connecting transmitter (1 connection)
proven Kati® Blitz housing

rod length	rod-Ø	weight	art.-no.
20 m	3.0 mm	1.14 kg	104820
30 m	3.0 mm	1.25 kg	104830
50 m	3.0 mm	1.50 kg	104850

Spare Rod Kati® Blitz 2in1

Polykat® fibreglass profile Ø 3,0 mm with integrated copper wires
fitted with rod end with external M5 thread
flexible guide head Ø 7 mm and pulling eye included

rod length	rod-Ø	weight	art.-no.
20 m	3.0 mm	0.30 kg	104320
30 m	3.0 mm	0.45 kg	104330
50 m	3.0 mm	0.68 kg	104350

Cablemax 2in1

2in1 concept: cable pulling device with detection function
Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires
fitted with rod end with external M5 thread and attached flexible guide head
Ø 7 mm, connection box for connecting transmitter (1 connection)
galvanized steel frame with aluminium reel Ø 400 mm

rod length	rod-Ø	weight	art.-no.
30 m	4.5 mm	5.1 kg	104085
60 m	4.5 mm	6.5 kg	104087

Spare Rod Cablemax 2in1

Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires
fitted with rod end with external M5 thread and attached flexible guide head
Ø 7 mm, connection box for connecting transmitter (1 connection)
- easy reeling in to exisisting devices
- simple re-fitting of existing cable pulling devices

rod length	rod-Ø	weight	art.-no.
30 m	4.5 mm	1.5 kg	104090
60 m	4.5 mm	2.1 kg	104092

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Locating Devices for route location

Cablejet 2in1

2in1 concept: cable pulling device with detection function
Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires
fitted with rod end with external M12 and screwed-on guide head Ø 18 mm
connection box for connecting transmitter (1 connection)
galvanized steel frame with reel Ø 600 mm

rod length	rod-Ø	weight	art.-no.
30 m	7.4 mm	10.1 kg	104095
60 m	7.4 mm	11.9 kg	104097
90 m	7.4 mm	13.7 kg	104099
120 m	7,4 mm	15,8 kg	104098

Spare Rod Cablejet 2in1

Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires
fitted with rod end with external M12 and screwed-on guide head Ø 18 mm
connection box for connecting transmitter (1 connection)
- easy reeling in to existing devices
- simple re-fitting of existing cable pulling devices

rod length	rod-Ø	weight	art.-no.
30 m	7.4 mm	1.5 kg	104100
60 m	7.4 mm	3.5 kg	104102
90 m	7.4 mm	6.7 kg	104104
120 m	7,4 mm	7,6 kg	104106

Pipe Eel 2in1

2in1 concept: cable pulling device with detection function
Polykat® fibreglass profile Ø 11 mm with integrated copper wires
fitted with rod end with external M12 and screwed-on guide head Ø 18 mm
connection box for connecting transmitter (1 connection)
galvanized steel frame with reel Ø 1000 mm, portable
roller supported rod guidance

rod length	rod-Ø	weight	art.-no.
150 m	11 mm	37.0 kg	104115
200 m	11 mm	43.0 kg	104116
250 m	11 mm	49.0 kg	104117
300 m	11 mm	61.0 kg	104118

Spare Rod Pipe Eel 2in1

2in1 concept: cable pulling device with detection function
Polykat® fibreglass profile Ø 11 mm with integrated copper wires
fitted with rod end with external M12 and screwed-on guide head Ø 18 mm
connection box for connecting transmitter (1 connection)
- easy reeling in to existing devices
- simple re-fitting of existing cable pulling devices

rod length	rod-Ø	weight	art.-no.
150 m	11 mm	22.0 kg	104120
200 m	11 mm	28.0 kg	104121
250 m	11 mm	34.0 kg	104122
300 m	11 mm	40.0 kg	104123

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