

**MADE • network expertise**

UNDERGROUND NETWORK DETECTION

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# UNDERGROUND NETWORK DETECTION



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## Field of activity

Electricity distribution maintenance  
Underground network locators  
Specific telecom equipment  
Power line detectors  
Personal Protective Equipment  
Defence

## Manufacturing and sales

## Engineering office

## Long-time partners

Enedis,  
GRDF, DGA,  
Naval Group, etc.

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# Underground network detection

Plastic water pipe locator **AQUA-PL**

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Plastic gas pipe locator **GAS TRACKER2**

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# Plastic water pipe locator

## AQUA PL

### PRESENTATION

Aqua-PL is a dedicated equipment for detecting and pinpointing water pipes. It is particularly aimed at plastic networks (PE, PVC).

Aqua-PL is based on the injection of an acoustic and percussive signature in the network to be detected, alongside a ground sensor used to capture the signal and accurately determine the vertical position of the pipe.

The transmitter can inject a signature from a fire hydrant or a water column or direct connection.

The receiver is a new generation of ground sensor that can achieve highly sensitive detection over a long distance.

The data collected are transmitted to a tablet and processed in real time, results are displayed graphically for an easy and user-friendly interpretation of the pipe location.

This feature makes it possible to modify the injection characteristics in real time according to the field conditions.

### BENEFITS

Aqua-PL stands out from alternative technologies (GPR, electromagnetic,..acoustic...) on the following points :

- ♦ No intrusion in the network (no insertion of push rod)
- ♦ No water outage among subscribers
- ♦ Discrimination (definitely locates the desired network)
- ♦ Detection over a long range (up to 400 meters)
- ♦ Detection of main pipe and service pipe
- ♦ Automated, ergonomic, rapid diagnostic interpretation and usable by non expert users
- ♦ Fast implementation of the injection system
- ♦ Long range coverage guaranteed thanks to direct access to water columns or fire hydrants



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information

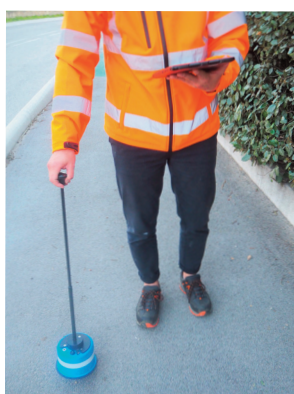




# Plastic water pipe locator

## TECHNICAL FEATURES

Transmitter		Receiver	
Transmitter	Injection accessorie :	Ground sensor	<ul style="list-style-type: none"> <li>• IP 54</li> <li>• Android software</li> <li>• Results in real time</li> </ul>
<ul style="list-style-type: none"> <li>• Rechargeable batterie</li> <li>• Autonomy : 6 hours</li> <li>• Weight : 2.1 kg</li> <li>• IP 54</li> </ul>	<ul style="list-style-type: none"> <li>• Weight : 1,4 kg</li> <li>• IP 65</li> </ul>	<ul style="list-style-type: none"> <li>• Rechargeable batteries</li> <li>• Autonomy : 6 hours</li> <li>• Weight : 1,14 kg</li> </ul>	
Transmitter bag		Receiver bag	
L x W x H : 530 x 270 x 230		L x W x H : 530 x 270 x 230	
Weight : 6.94 Kg		Weight : 5.84 Kg	



Ground sensor



Water column injection



Fire hydrant injection



Bags



VIDÉO

Warranty : 12 months

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# Plastic gas pipe locator

## GAZ TRACKER2

### PRESENTATION

GAS TRACKER2 is an instrument for locating and identifying buried plastic gas pipes. It is able to locate the position and direction of a buried plastic pipe from the surface. Generally out-dated maps are used to locate existing gas lines. The GAS TRACKER2 was developed to provide an easier, more efficient means to locate pipes resulting in a saving of time and money. Manufactured in France and validated almost one decade ago by the French gas company, it is now used on all continents. This unique signal injection method is internationally patented.

### USE PRINCIPLE

The transmitter, thanks to a resonator tank, is connected to a standard meter box. It sends the signal through the gas, vibrating it, which in turn makes vibrations in the surrounding ground. The transmitter is easy to use with only two options : ON and OFF.

The GAS TRACKER2 receiver, using a listening device placed on the ground and connected to a hand-held receiver, displays the results.

The receiver has two modes : Prelocate, to quickly identify the area where the pipe is buried ; and Pin-point, to accurately locate where the pipe is and which direction it takes.

The GAS TRACKER2 is fully operational in urban environments even with the associated ambient noise.

The receiver features :

- ♦ A strong design, made for the field
- ♦ A military connection
- ♦ A long-life battery pack)
- ♦ A high visibility screen
- ♦ A very simple user-friendly interface
- ♦ 3 functions : 3 buttons



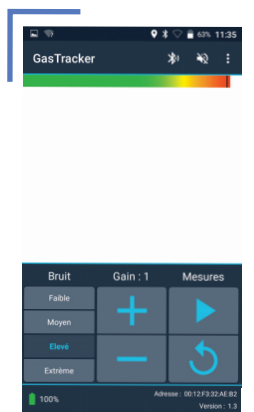
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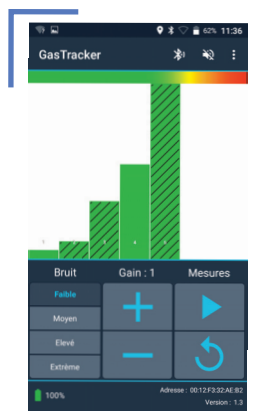
# Plastic water pipe locator

## TECHNICAL FEATURES

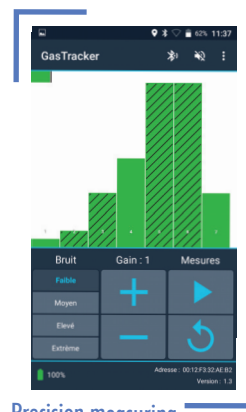
Transmitter	Receiver	Ground sensor
<ul style="list-style-type: none"> <li>Battery : Pb 2 x 7,6 Ah 12 V</li> <li>Battery autonomy 4 h</li> <li>Automotive battery charger input 12 V</li> <li>External power supply (PSU) input 220 V</li> <li>IP 63</li> </ul>	<ul style="list-style-type: none"> <li>Tablet : Android, Bluetooth connection</li> <li>Battery : Li-Ion rechargeable 9.6 Ah</li> <li>Battery autonomy 8 h</li> <li>IP66</li> </ul>	<ul style="list-style-type: none"> <li>Battery : Powered by NiMH</li> <li>Battery autonomy 10 h</li> <li>IP 63</li> <li>Removable stick</li> </ul>
<ul style="list-style-type: none"> <li>Transport case : 472 x 347 x 194 mm</li> <li>Weight : 13,5 kg</li> <li>Temperature conditions : -20°C to +60°C, 90 % relative humidity</li> </ul>	<ul style="list-style-type: none"> <li>Transport case : 560 x 347 x 239 mm</li> <li>Weight : 15,9 kg</li> </ul>	



Pre locating



Pinpointing



Precision measuring



Log file

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POWER LINE DETECTOR Specific telecom equipment  
DEFENCE ELECTRICITY DISTRIBUTION MAINTENANCE

**UNDERGROUND NETWORK LOCATOR**

electricity distribution maintenance DEFENCE power  
line detector PERSONAL PROTECTIVE EQUIPEMENT under-  
ground network locator specific telecom equip-  
ment **ELECTRICITY DISTRIBUTION MAIN-**

**TENANCE** POWER LINE DETECTOR Specific telecom  
equipment DEFENCE UNDERGROUND NETWORK LOCATOR elec-

tricity distribution maintenance power line detector  
**SPECIFIC TELECOM EQUIPMENT** PERSONAL

PROTECTIVE EQUIPEMENT underground network locator  
ELECTRICITY DISTRIBUTION MAINTENANCE **POWER LINE**

**DETECTOR** SPECIFIC TELECOM EQUIPMENT DE-  
FENCE power line detector UNDERGROUND NETWORK

EQUIPMENT power line detector **PERSONAL**  
**PROTECTIVE EQUIPMENT** electricity distri-

bution maintenance specific telecom equip-  
ment **DEFENCE** power line detector PERSONAL PRO-

TECTIVE EQUIPMENT underground network locator DEFENCE

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