A. T. M. S. Proven Advanced Technology Solutions

GAS TRACKER 2 Plastic Gas Pipe Location & Identification

INCREASED SENSITIVITY & RANGE by **MADE-SA**

Tracks **PE & PTFE** plastic gas pipes from the surface

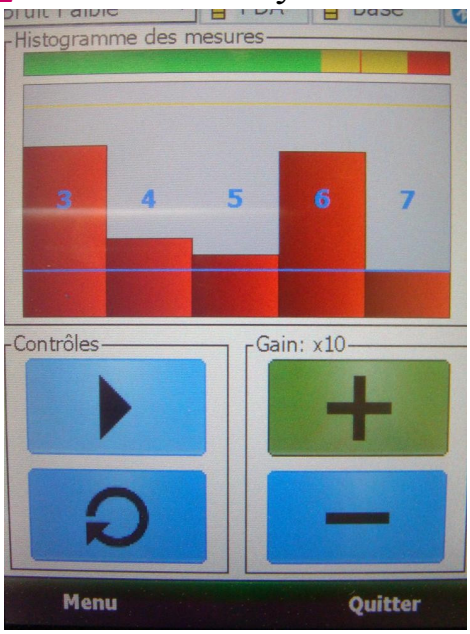
Up to 400 + meters from transmitter

Simple and safe to use

Improves efficiency and reduces costs

Minimum disruption to customers

Sunlight-readable colour interface



GAS TRACKER 2 is a system for tracking buried gas pipes made of polyethylene or other plastics. The method used is to send a precise acoustic wave along the pipe through the gas. The elasticity of the pipe wall allows some of the vibration energy to be passed by the soil to the surface where it is detected by a sensitive but robust vibration detector. This communicates by Bluetooth with an Android tablet with tailored software to separate the transmitted signal from the environmental noise. The pipe can be traced up to 400 meters or more from the transmitter, even in noisy urban environments, and can normally be located laterally to within the width of a spade. Because the signal travels through the gas, (or air in an out-of-use pipe) the transmitter can be connected to a metal pipe section leading to a plastic section that can be tracked from the surface.

The colour screen interface enables quick and easy control of the system for the best pipe location.

Since it is simple to set up and to use, **GAS TRACKER 2** can be operated by one person.

GAS TRACKER 2 is a great advance on the original system. The interactive colour display gives greater flexibility of operation, and communicates by Bluetooth to the detector foot. This has a removable handle to reduce its susceptibility to wind interference, and is more robust to enable pushing into soft ground with a foot.

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GAS TRACKER 2 has an **updated transmitter** with **simplified operation**. This drives a loudspeaker in a drum which is connected to the gas network at any point, often, but not always, in place of a customer meter. This injects a precise acoustic signal into the gas, and this signal is propagated along the pipe ***in the gas***. All PE or other plastic pipes can be traced from the surface, and the signal can pass through a metal pipe section to a plastic section which can then be traced.

The **new detection sensor is better adapted for use on soft ground and has much greater sensitivity to increase the tracking range of the system**. It is placed on the ground in successive positions for measurements to be made to find the lay of the pipe. The detector is moved between each measurement to find the strongest signal, which indicates the position vertically over the pipe.

The **colour tablet** shows the current configuration of the unit and the level of signal detected, as well as several previous measurements. The **"Location" bargraph is always active** for a "quick look", and the filtered **"Measurement" mode can be activated at the same time** to pinpoint the pipe with greater precision. The measurement **analysis period can be varied by the operator**, so as to adapt the operation to the level of environmental noise. The receiver can be set to one of **several amplification levels**, so as to **better adapt** the receiver performance to the environment and the distance from the transmitter. The system is supplied in two carrying cases, which weigh only 12 and 13 kg so it is easily car-

GPS Location

The GPS incorporated in the tablet enables the position of the pipe to be recorded directly, and a plan transferred to a computer.

The Tablet communicates with the detector foot using Bluetooth to reduce wind interfence

TECHNICAL CHARACTERISTICS

	Transmitter	Receiver & Detector
Supply	Integral 12V. battery for 4 hours operation 12 V. supply cable 220 V. for charging	Android Tablet with 7in sunlight readable screen. 8 hours operation.
Dimensions cm.	Carrying case 36 x 40 x 20 cm. Resonant volume 18 cm. Dia. 25 cm long	Carrying case 55 x 35 x 22 cm. Detector 15 cm. diameter
Weight	Carrying case complete—12 Kg. Resonant volume 4 Kg.	Carrying case complete—13 Kg. Detector 2 Kg. Hand-held 1 Kg.
Temperature range	-20 to +60 °C	-20 to +60 °C

GAS TRACKER is CE marked, & built to the European standards NF EN 50081 & 50082-1
MADE-SA is qualified ISO 9001

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