

GAS TRACKER II Plastic Gas Pipe Location & Identification

INCREASED SENSITIVITY & RANGE

by **MADE-SA**

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

Dramatically reduces excavation

Up to 400 meters from transmitter

Simple and safe to use

Improves efficiency and reduces costs



GAS TRACKER II is the latest version of our 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 a handheld unit which uses tailored software to separate the transmitted signal from the environmental noise.

The pipe can be traced up to 400 meters or even 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 system enables location of the pipes *before* excavation!

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

The system is in world-wide use, increasing efficiency and realising considerable economies.



GAS TRACKER II is a great advance on the original system. The interactive colour display gives greater ease of use and 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 II 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 necessarily, 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. If necessary, 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 **interactive touch-screen colour display** 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 **adjusted over a wide range of amplification levels**, so as to **better adapt** the receiver performance to the environment and the distance from the transmitter.

A GPS position can be taken for each measurement, and then transferred to a computer for record keeping.

The system is supplied in two robust carrying cases, and two options are available for use when the transmitter is installed indoors.

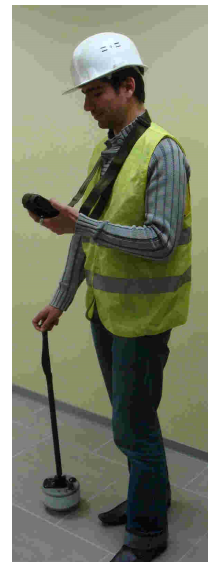
Option 1— A ten meter long purge tube extension with a purge valve and flame arrestor at it’s extremity.

Option 2— A sound-proofing cover.

There is also a precision GPS option



ABOVE - the receiver set with colour touch-screen and the robust detector foot with its removable handle
RIGHT - The handheld communicates easily with the detector foot by Bluetooth.



Technical Characteristics

Supply

Dimensions cm.

Weight

Temperature range

Transmitter

IP 54

Integral 12V. battery for 4 hours operation
12 V. supply cable 220 V. for charging

Carrying case 36 x 40 x 20 cm.
Resonant volume 18 cm. Dia. 25 cm long

Carrying case complete—12 Kg.
Resonant volume 4 Kg.

-20 to +60 °C

Receiver & Detector

IP 65 IP 53

Integral batteries for 8 hours operation
Separate Chargers supplied

Carrying case 55 x 35 x 22 cm.
Detector 15 cm. diameter

Carrying case complete—13 Kg.
Detector 2 Kg. Hand-held 1 Kg.

-20 to +60 °C

GAS TRACKER is CE marked, & built to the European standards EN 61000-6-3 & 61000-6-1
MADE-SA is qualified ISO 9001