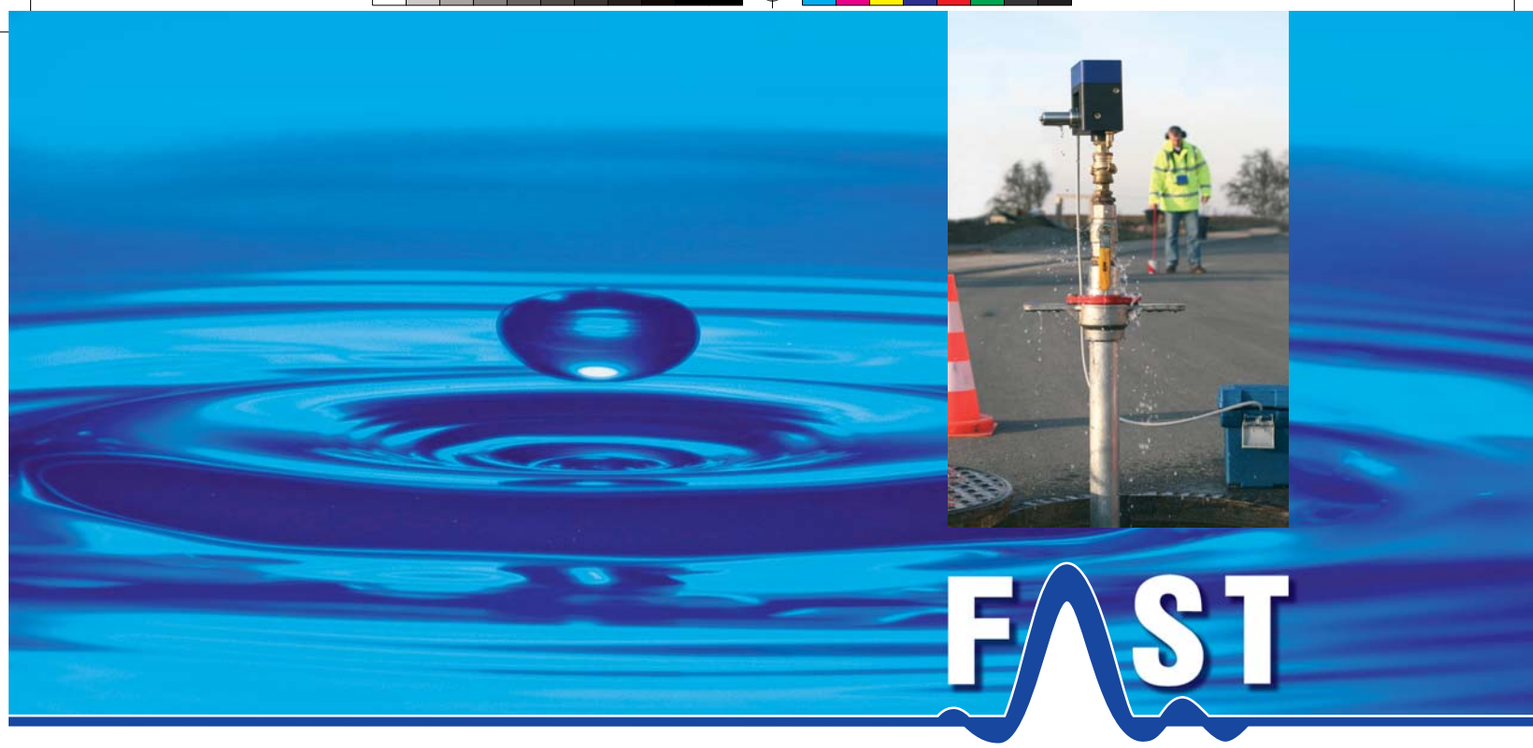
PWG/2

Searching for Pipes with the PWG PulseWaveGenerator

- suitable for all pipe materials such as PVC, PE, AZ, cast iron, steel, etc.
- no disturbance due to electric cables
- low energy requirements
- extended lifetime

D-74243 Langenbrettach
Bössingerstr. 36
Telefon ++49(0)7946/921 00-0
Telefax ++49(0)7946/71 53
eMail info@fastgmbh.de
Internet www.fastgmbh.de



Search for Pipes PWG/2

General Information

The PWG pipe locating system consists of a receiver (geophone) and an electronic pulse generator PWG to be screwed on a water pipeline or on a hydrant. This system allows locating non-metal pipes running up to 2 metres below the surface. Technical effort can be kept low, and the pipe section does not need to be shut down during the locating process. The particular pipe section requires a minimum pressure of 2 bar, and handling the system is very simple. No special skills required.

Range of Applications

The waves generated by the device travel best on an even ground structure and ground surface. Under good conditions, distances of between 50 metres and 600 metres can be covered.
The PulseWaveGenerator system can help to draft, amend, or check network plans, and it can be used both inside and outside residential areas. Also unknown pipes can be located quickly and reliably with this system.

Functioning of the PWG Receiver

The Aqua M100/M200 F.A.S.T. geophone (receiver) records the strongest waves on the pipe through a ground microphone and displays their intensity acoustically and optically.

Functioning of the PulseWaveGenerator (PWG)

The PWG (pulse generating device) is attached to a water pipeline. The PWG valve then opens and closes about 60 times per minute due to the water pressure and the flux. This relief-pressure alternation process generates pulse waves which travel on the pipe as one-dimensional longitudinal compression waves. These waves are then measured with the geophone on the surface.

Technical Specifications

minimum pressure required inside the pipe section	2 bar
power supply	integrated accumulator in case
operating time	about 12 hrs.
weight	4.2 kg
connection	1-inch coupling
pulse frequency	about 60 pulses per minute

Extent of Supply

- PulseWave-Generator
- case with accumulator
- charging unit
- connection cable

Specifications are subject to change