

System Combiphon

Locating plastic pipes acoustically

As plastic pipes are not electrically conductive, they cannot be located with the classic **electro-magnetical method**. Another principle in pipe location is used with the acoustic method: the pipes transmit mechanical vibrations better than the it surrounding soil. The vibrations are transmitted along the pipe and over the soil to the surface where they can be detected by a microphone (**AQUAPHON[®]**). Just as with the acoustic location of water leaks, indicates the highest intensity the position of the pipe. Basically **fibre cement or metallic pipes** can also be located with this method.



The **System COMBIPHON[®]** consists of the central control unit **generator G5** and different pulse generators.



Service pipes (Water or gas)

are set vibrating by the **knocker**. It knocks just as an electrical hammer from the outside onto the pipe. Pipes filled with gas or air are not always unproblematic, as the conducting water column is missing.

chain fastening for diameters up to 100 mm, weight: 1.8 kg.



Main pipes - water

require more energy to be set vibrating. The water column is set into motion by abstraction of water from a hydrant. The water column is restricted in intervals by a shutoff device, the **stopper**. The created pressure waves transmit and can be located, even over long distances.

Radio control of generator G5.

When e. g. locating a service pipe, it is not necessary for the user to go back to the point of coupling to modify the intensity. This is necessary as it is impossible to work with high intensity near house walls (contamination of sound), but more power is required on longer distances. Transmitting ranges of approx. 30 m from the cellar and up to 300 m on the outside are possible.

Technical data of generator G5

Power supply:	built-in lead accu, optional 12 V adapter or 12 V car battery
Operating time:	with the Knocker, between 5 – 80 h (depending on intensity)
Operating temperature:	-10 °C up to +50 °C
Protection class:	splash-proof according to IP 54 (without adapter)
Dimensions (W x H x D):	60 x 19 x 21 cm (compartment for knocker and adapter, car adapter L)
Weight:	approx. 6,3 kg with adapter

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We are certified in accordance with EN ISO 9001