

RD550

PULSE WAVE GENERATOR FOR TRACING WATER PIPES

SUMMARY

The RD550 enables the water-leak specialist to accurately trace underground water pipes at depths of up to 6.5 feet (2 meters) and for distances of up to 650 yards (600 meters). Attached to a water pipeline, the valve in the RD550 rapidly opens and closes creating pressure waves that travel along the pipe. The resulting noise can be used to trace the path of the pipe using a ground microphone (geophone) such as the RD547 or RD545. This product is suitable for most pipe materials: PVC, PE, AZ cast iron, steel etc.

OVERVIEW

Accurately locating the water pipe is often a vital first step in finding a water leak, and plastic pipes can be particularly difficult to trace. The RD550 pulse wave generator is an accessory for the Radiodetection range of acoustic water leak detectors allowing them to be used to locate pipes either as part of leak-detection or to draft or check network plans. It is not necessary to shut down the pipe section during the locating process.

The robust valve unit can be attached to variety of water network fittings with a maximum pressure of 115psi (8 bar). A Geka claw coupling is provided to allow quick mounting and dismounting of the unit. The standard connection fitting is a 1" female BSPP, and a 1" BSPP to 1" FNPT adaptor is provided in the Americas.

As the valve unit opens and closes pressure waves are created. The noise created by these pressure waves can be measured above ground using a ground microphone, such as the RD547, to trace the location of the water pipe. Water pressures from 29 psi (2 bar) to a maximum of 115 psi (8 bar) are supported. Two easily interchangeable pistons are provided to allow the user to match the strength of pulse wave to the pipe infrastructure. Slow and fast pulse modes can also be chosen by the user.

The unit is supplied in a convenient toolbox with space for accessories and fittings. The battery is rechargeable using the mains power supply provided. A vehicle power connection is also supplied for charging on the move.



FEATURES	BENEFITS
Acoustic based system	Suitable for most pipe materials; PVC, PE, AZ cast iron steel etc.
Low energy requirements	Up to 12 hours use between charges
Two piston lengths	Pulse wave strength can be matched to network
Variable pulse speed	User can vary audio signals to distinguish from background noise
12V vehicle charging cable	Can charge unit on the move
Geka claw coupling	Quick release of system from fittings



TECHNICAL DATA	
Minimum pressure	29 psi / 2 bar
Maximum pressure	115psi / 8 bar
Audible distance	Up to 650 yards / 600 meters, depending on pipe and ground structure
Audible depth	Up to 6.5 feet / 2 meters, depending on pipe and ground structure
Weight	9lbs 4oz / 4.2kg
Connections	1" Geka claw coupling, 1" female BSPP, (1" FBSPP to 1" FNPT adaptor supplied in North America)
Battery type	NiMh
Battery life	Up to 12 hours
Temperature conditions	Operation: -4°F to +140°F / -20°C to +60°C Short-term storage: -4°F to +113°F / -20°C to +45°C Long-term storage: +41°F to +77°F / +5°C to +25°C, (ensure battery is charged prior to storage)
Pulse frequency	Up to 60 per minute on fast mode
Servicing	Every 300 hours or once a year
Warranty	24 months



SPX

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