The biggest challenge in the water industry today is leakage, the costs involved and damage to the environment

RD500 plastic water pipe locator solution can help solve this problem



Under time pressure to find and repair leaking water pipes?

The RD500 can help

The RD500 traces plastic water pipes over distances up to 500 feet. It is quick and easy to use. Operators can learn to locate and trace using the RD500 in just a few minutes.

Introduction

As more and more of the old metal water supply infrastructure fails and is replaced by plastic pipes when repairing leaks or laying new supplies, it has highlighted the need for specific tools to help with acute problems.

With increasing commercial pressures to maintain water supplies, it is vitally important to be able to locate buried plastic pipes as fast as possible to facilitate swift and timely repairs.

The RD500 is a simple to use solution for water utility engineers to locate and trace plastic pipes.

How does the RD500 help find plastic pipes?

Conventional Pipe and Cable locators trace electromagnetic signals travelling on metal pipes and cables. Those signals don't travel on plastic. The RD500 however generates acoustic signals, which travel down the plastic pipes as vibrations.

The RD500 locator detects the vibrations: the nearer to the pipe, the louder the vibrations are, and therefore an operator can identify the location of the buried pipe and trace its route.

The RD500 has two main components: a Pulse Transmitter which sets up the vibrations when attached via couplings to the water supply and then a hand-held locator to listen for the vibrations as they emit along the plastic pipe.

Locator performance

The RD500 locator is capable of locating a single pipe under grass or soil for distances up to 500 feet at depths of 6 feet.

For familiarity, the techniques used to detect and trace with the RD500 are similar to a traditional Cable and Pipe Avoidance tool.





The receiver is handheld and light with the meter fitted at the top of the 48 inch long instrument



The meter is calibrated 0-100 to indicate a peak response to the Pulse Transmitter signal

Meter indicates battery state at each switch (ON)





Locator is supplied with a 5.5 inch in earth spike for soft surfaces and a ground plate for paving, asphalt or concrete



sensitivity control

Pulse Transmitters

There are two different types of Pulse Transmitters available:

Water pressure powered mechanical Pulse Transmitter

The mechanical Pulse Transmitter is a heavy duty brass casting. The input side is fitted to an open standpipe tap, meter base or hydrant via a damper hose and as it discharges water through the Pulse Transmitter into a heavy duty outlet hose, an oscillator reacts to water flow in the Pulse Transmitter body and applies a distinctive pressure wave to the water in the pipe.

All transmitters need a flow of 1.3 - 2.6 US Gallons per minute and there is a choice of three Pulse Transmitter transmitters to suit different application points:

Application	Water pressure	Color of Pulse Transmitter
Fire Hydrant	High Power	Red
Meter Base	Medium Power	Yellow
Тар	Low Power	Green



160 psi/11 bar is maximum working pressure for the Pulse Transmitter.

There is a simple T-handle adjustment to match the Pulse Transmitter to water pressure and flow.

Electronic Pulse Transmitter

The RD500-Tx is an electronic transmitter that provides a traceable automatic fixed pulse down a plastic water pipe via its custom Pulse Transmitter fitting.

An alternative to the water powered mechanical Pulse Transmitter, the RD500-Tx is ideal for use in low pressure water supplies such as sprinklers, hoses or domestic supplies where push fittings may be part of the infrastructure.



The RD500-Tx is connected the same way as a mechanical Pulse Transmitter and is powered by onboard "D" cell batteries or via a 12V DC car adaptor.

The advantage of using the R500-Tx is that once connected, it requires no manual adjustment of the water pressure to provide a traceable signal thus speeding up location and tracing services.







Ordering information:

Part number	Description	
10/RD500 KIT	RD500 Kit comprising RD500 Plastic Water Pipe Locator, Concrete/Asphalt plate, Headphones, Spike and Carry Case	
10/5T037	RD500 Low Power Pulse Transmitter (green)	
10/5T035	RD500 Medium Power Pulse Transmitter (yellow)	
10/5T036	RD500 High Power Pulse Transmitter (red)	
10/RD500-TX	RD500-Tx Electronic Pulse Transmitter, includes Bag, Pulse Transmitter connection unit, 12v DC power adaptor, waste hose and tap damper with hose adaptor kit and Tap	
10/RD500-MECHKIT	RD500 Kit comprising RD500 KIT, Low Power Pulse Transmitter, Medium Power Pulse Transmitter, High Power Pulse Transmitter, Accessory Bag, waste hose and tap damper and adaptors and Tap	
10/RD500-ELECKIT	RD500 Kit comprising RD500 Plastic Water Pipe Locator Kit, Filter Washers, RD500-Tx Electronic Pulse Transmitter, Bag, Pulse Transmitter connection lead, 12v DC power adaptor, waste hose and tap damper with hose adaptor kit and Tap	
10/RD500-PRO	RD500 Pro kit, comprising RD500 Plastic Water Pipe Locator Kit, Filter Washers, RD500-Tx Electronic Pulse Transmitter, Bag, Pulse Transmitter connection lead, 12v DC power adaptor, Low Power Pulse Transmitter, Medium Power Pulse Transmitter, High Power Pulse Transmitter, waste hose and tap damper with hose adaptor kit and Tap	

Global locations

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