

Locate and trace pipes over distances up to 45 meters*



PVC and plastic pipes are increasingly popular in water infrastructure as a safe, strong and flexible alternative. However, their non-metallic nature makes locating these underground pipes challenging.

Water pipe leaks lead to substantial water loss, increased operational costs, and undermine efforts to ensure sustainable water management and supply.

The RD510 Water Pipe & Leak Detector solution is designed for maintenance and repair work, helping you locate leaks with precision – up to 5 meters.*



- User-Friendly Control: Easy-to-use, hand-held control unit with color touch screen.
- High Sensitivity Microphone: Ground microphone with a telescopic pole for precise detection.
- Comfortable Headset: Equipped with a standard audio jack for seamless audio clarity.
- Versatile Metal Spike: Extends usability on soft ground conditions.
- Noise Reduction: Band pass filter to minimize background noise interference.
- Pulsed Water Transmitter: Provides a traceable pulse to the target pipe.
- Adaptable: Pulsed Water Valves to suit most environments (4 or 10 bar).





Advanced sensor technology, the RD510 can accurately detect leaks up to 5 meters

Locate Leaks with Precision

The RD510 advanced sound detecting system enables accurate leak detection. The hand-held control unit and ground acoustic sensor work together to isolate and amplify leak sounds for accurate locating. Capable of detecting leaks up to 5 meters deep*, this system is both reliable and straightforward.



Simple 3-Step Locating Process

The RD510 features a highly sensitive acoustic sensor, making it efficient for locating and tracing plastic water pipes. Here's how it works -

- 1. **Connect:** Tether the RD510 Pulsed Water Transmitter (PWT) to a fire hydrant, meter base or external tap.
- 2. **Inject:** Send a traceable sound into the target pipe using the PWT.
- Detect: The RD510 display unit and ground acoustic sensor accurately detect and identify the pipe's location up to 45 meters away.*

^{*}Actual range will vary depending on the ground composition and pipe material.





RD510 Water Pipe Locator & Leak Detector

| Part number | 10/RD510-RX |
|-----------------------|--|
| Components | Hand held control unit with soft bag cover, acoustic sensor, telescopic pole, soft ground spikes, hard ground plate, headset, USB cable, memory card, transit case |
| Weight (shipping) | 9 kg |
| Dimensions:(case) | 22.5 x 60 x 45 cm (HxLxW) |
| Construction | ABS |
| Display | 7" HD touch color screen |
| Power Input | 5V, 2A Micro USB |
| Operating Modes | Spectrum Analysis, Locating |
| Language | English |
| Power | Internal Li-Ion batteries, not removable |
| Frequency Range | 1:1000 Hz |
| Gain | 10 levels adjustable |
| Volume | 10 levels adjustable |
| Response | Peak |
| Acoustic Sensor Type | Piezo Electric Ceramic |
| Operating Temperature | -20 to 50°C |
| Operating time | Up to 8 hours (At 20°C, medium screen brightness) |



Pulsed Water Transmitter

| Part numbers | 10/RD510-TX-STD STD Pressure (4 bar) 10/RD510-TX-HP High Pressure (10 bar) |
|-----------------------|--|
| Components | Pulsed water transmitter, soft bag, 12V car adaptor, pipe connection kit, Pulsed Water Valve (4 bar, 10 bar or both – see part number) |
| Weight (shipping) | 3 kg |
| Dimensions (case) | 20.3 x 34.3 x 22.8 cm (HxLxW) |
| Construction | ABS |
| Power | 8x D cell alkaline batteries, 12V DC in or optional Li-lon battery pack |
| IP Rating | IP65 (with tool tray fitted) |
| Operating Temperature | -20 to 50°C |
| Operating time | Up to 8 hours (At 20°C) |

Kits

All RD510 kits include a RD510 Water Pipe Locator & Leak Detector, a Pulse Water Transmitter, a hose connection kit and one or two Pulsed Water Valves (see description)

| Part number | Description |
|------------------|---|
| 10/RD510-KIT-STD | Standard pressure kit with 4 bar Pulsed Water Valve |
| 10/RD510-KIT-HP | High pressure kit with 10 bar Pulsed Water Valve |
| 10/RD510-KIT-PRO | Full kit with both the 4 and 10 bar Pulsed Water Valves |

Single Components

| Part number | Description |
|-----------------------|--|
| 10/RD510-RX | Hand held control unit with soft bag cover, acoustic sensor, telescopic pole, soft ground spikes, hard ground plate, headset, USB cable, memory card, transit case |
| 10/RD510-TX-STD | Pulsed Water Transmitter, includes soft bag, 4 bar Pulsed Water Valve, 12V DC power adaptor, waste hose and tap damper with hose adaptor kit and Tap |
| 10/RD510-TX-HP | Pulsed Water Transmitter, includes soft bag, 10 bar Pulsed Water Valve, 12V DC power adaptor, waste hose and tap damper with hose adaptor kit and Tap |
| 10/RD510-PW-VALVE-STD | Pulsed Water Valve STD Pressure (4 bar) |
| 10/RD510-PW-VALVE-HP | Pulsed Water Valve High Pressure (10 bar) |







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