

# RD533 Leak Noise Correlator

Wireless, multi-function leak noise correlator

## Overview

The RD533 correlator is a multi-function system that is designed to detect leaks and trace the topography of water supply networks. When used with a transmitter, the RD533 can trace a pipe's route underground. The system features a highly sensitive ground microphone that can detect even minute leaks. The automatic frequency search function coupled with automatic and manual digital filtering allows the operator to locate leaks rapidly with minimal error.

The RD533 Leak Noise Correlator system is based around the use of at least two outstations which are deployed on suitable fittings surrounding an area of interest. The outstations feature extremely sensitive meters which detect and quantify leak noise and send it wirelessly to the Central Unit.

Measurements are saved to the central unit, allowing the operator to compare readings over time to establish the network's ongoing condition. With simple one-button operation and a display that automatically adjusts brightness, the RD533 leak noise correlator is the ideal leak detection device for a wide variety of industry applications.

## Features

- Portable
- Correlator/ground microphone/listening device in one compact system
- User-friendly control features
- Solid aluminum case
- 500mW transmitter (subject to regulatory approval)
- Charge or power direct from a vehicle (no adaptor required)
- Headphone jack in central unit and measuring boxes



Specifications overleaf

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## Specifications

### Central Unit

<b>Resolution:</b>	0.2m
<b>AFS function:</b>	Automatic search for frequencies
<b>Memory capacity:</b>	20 correlations
<b>Filters:</b>	High-pass/low-pass 15 steps each
<b>Operating time:</b>	14 hours
<b>Charging time:</b>	3 hours
<b>LCD resolution:</b>	240 x 64 pixels
<b>Interfaces:</b>	RS 232, DB-25 parallel port
<b>Connections:</b>	Sensor/hydrophone/antenna/headphones
<b>Temperature range:</b>	-20°C to +60°C
<b>Dimensions:</b>	260 x 150 x 105mm (10.5 x 6 x 4 inches)
<b>Weight:</b>	2.5kg

### Outstations (Red & Blue)

<b>Display:</b>	Graphical/numerical
<b>Displayed data:</b>	Current level/minimum level, battery charge level
<b>Radio frequency:</b>	433MHz
<b>Transmitting power:</b>	500mW
<b>Lighting:</b>	Automatic
<b>Operating/charging time:</b>	Approx. 9 hours/3 hours
<b>Dimensions:</b>	225 x 165 x 100mm (8.8 x 6.5 x 4 inches)
<b>Weight:</b>	2.9kg

### Sensors

<b>Standard:</b>	Piezoceramic
<b>Sensitivity:</b>	>1000pC/g
<b>Mounting:</b>	Permanent magnet
<b>Operating:</b>	-20°C to +60°C

## Correlator

- Coherence display
- AFS function
- Measurement on sections with varying pipe materials
- High-measurement accuracy, even on plastic pipes
- Direct printing of measurement results; no PC required
- Software updates through RS 232

## Geophone

- Functions: search for pipes and burst pipes
- Displayed data: current/minimum/average value
- Adjust function: automatic sensitivity
- Automatic data saving process





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.