

S6 Microsonde

USER GUIDE



Introduction

The S6 Microsonde is a small diameter 6.4mm (0.25") battery powered sonde transmitting on 33kHz and is compatible with a wide range of Radiodetection locators. With its small diameter, the S6 Microsonde is particularly useful in small diameter ducts where it can be used to trace the path of the duct and in the precise location of blockages or collapses.

The S6 Microsonde can be 'blown' or attached to a cable before jetting it into the duct and may also be connected to a traditional push rod and inserted into the duct or pipe. The route of the duct can be traced using a Radiodetection locator and the precise location and depth of a blockage can be detected.

Radiodetection supply a comprehensive range of sondes, some locatable to depths of up to 15m (49') and with diameters ranging from 6.4mm (0.25") to 64mm (2.52"), to suit a wide variety of applications.

For more information on the full range of Radiodetection sondes, go to www.radiodetection.com

Using the S6 Microsonde

The S6 Microsonde kit includes the following:

- Transmitter unit incorporating the battery socket.
- Small mounting connector with M5 female thread used to connect onto micro cable or pushrod or when length of sonde needs to be limited while being 'blown' through duct.
- Flexible mounting piece with M5 female thread providing greater flexibility when being pushed in ducts and around corners.
- Modified CR425 lithium ion battery.
- User guide.

OPERATING THE S6 MICROSONDE

The lithium ion battery provides approximately 10 hours usage although battery life may be shorter in very cold applications.

When the battery is inserted and either mounting connector is fitted the sonde automatically switches on and starts transmitting a continuous locate signal.

A green LED light at the tip of the S6 flashes slowly when power is on. If the battery is low, the LED will switch off – although the sonde may still operate for some time until the battery is totally consumed. It is advisable to replace a low battery as soon as possible.

PUSHING S6 MICROSONDE WITH CABLE

When the battery is inserted with the mounting piece fitted, the sonde can be fitted to the end of micro cable using the M5 female thread and if necessary removing the outer insulation of the cable. The M5 thread can also be used to connect directly to a traditional push rod and inserted into the duct.



After the sonde and micro cable are inserted into the duct, they can travel through the duct with the aid of jetted air or by suction.

Note: If the sonde gets stuck, it is not recommended to force it backwards in the duct as it may get detached from the cable.

JETTING THE S6 MICROSONDE WITHOUT CABLE

When jetting the sonde without the use of a cable the sonde length can be minimised by using the small mounting piece. It is recommended to use the sonde within a protective tube when blowing through a duct to limit possible damage to the sonde – particularly if a blockage is encountered.

LOCATING THE S6 MICROSONDE

The sonde can be used to trace the route of the duct or to locate the precise position of a blockage within a duct. If the route of the duct is known the location can be roughly estimated using the jetted cable length or duct maps.

The sonde exhibits signal characteristics similar to other Radiodetection sondes. To precisely locate the position of the blockage use a suitable Radiodetection locator and refer to the instructions for use of that particular locator.

If the route of the duct is not known it is recommended to trace the sonde gradually to avoid losing the signal.

Important information

MAINTENANCE, STORAGE AND WARRANTY

The S6 Microsonde does not have any parts that require maintenance by the user, other than that of the battery. When cleaning a soiled device, do not allow dirt to get into the battery unit. Do not use corrosive solvents. We recommend that the device is stored in dry conditions at room temperature. If water gets into the battery unit, allow it to dry completely at room temperature.

A pack of 10 replacement batteries can be ordered using Radiodetection part number 10/S6-BATTERYPACK.

The S6 Microsonde is intended to be used for location purposes only and should be used in this way. Failure to do so may result in damage to the microsonde and may invalidate the warranty.

TECHNICAL SPECIFICATIONS

Signal frequency	33kHz (32768Hz), continuous.
Battery	Modified 3V CR425 lithium battery providing approximately 10 hour's use.
Indicators	Flashing green power-on LED
Maximum depth	Approximately 2 meters, condition dependent
Intended use	Minimum 8mm (0.3") diameter non-conductive tubes and pipes
Attaching method	M5 female thread
Diameter	6.4mm (0.25")
Length	83mm (3.2") / 105mm (4") with flexible adaptor fitted



This symbol means that this product should not be discarded with household or general waste after its end-of-life. Instead it should be returned for recycling according to EU Waste Electrical and Electronic Equipment directive (WEEE) or according local regulations. For more information about the separate collection, please contact your local distributor.



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