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Prospect House  
George Cayley Drive  
Clifton Moor  
York  
England  
YO30 4XE

Tel: +44 (0) 1904 692723  
Fax: +44 (0) 1904 690385

E-Mail: [sales@yorksurvey.co.uk](mailto:sales@yorksurvey.co.uk)



## Magnetomatic Pipe & Cable Locator



**Code: 51201**

## Operating Instructions

# Magnetomatic® Pipe & Cable Locator



The Magnetomatic® Pipe & Cable Locator is a 'space age' divining rod, designed to locate a wide variety of pipes & cables, underground or underwater. Its main advantage over electronic locators is the ability to detect ceramics and concrete.

The 'Magnetomatic®' is designed specifically to detect iron, PVC, ceramic, transite and concrete pipes, conduits and both wire and fibre optic cables at up to 3m depth.

#### Note

To obtain optimum usage from the 'Magnetomatic®', it is important to read the operating instructions and spend some time (30 minutes is recommended) testing to gain a feel for the instrument. This will also determine if the operator is one of the few people who cannot use the instrument.

#### Practice before using

As the 'Magnetomatic®' is designed and engineered to be delicately balanced, a practice period is needed so that the operator can gain a 'feel' for the instrument, and properly interpret the signals. When properly balanced, the indicator will 'float' and respond smoothly and quickly to the attraction of the pipe. **Thick soled shoes should be avoided, as should nylon clothing - this can interfere with the sensitivity of the indicator.**

1. Lay a section of PVC or Metal pipe, at least 1 metre (3') long, on level ground where there is known to be no buried services to interfere with the practice.  
*Refer to 'Setting the Instrument' below to set the 'Magnetomatic®' up.*
2. Grip the handle firmly and hold the instrument at a comfortable arms length, keeping the indicator parallel with the ground and pointing straight in front.
3. Starting from 1 metre (3') distance, approach the pipe at right angles. Walk VERY SLOWLY, observing the indicator constantly. The indicator should remain steady and balanced - bad hand balance will cause gravity to overcome the sensitive balance of the indicator; keep practicing until a steady balance is achieved).
4. As soon as the pipe is below the indicator, the indicator will swing towards the bearing of the pipe (see figure 1). If no reaction is seen, or erratic movement occurs, check first that thick soled shoes or nylon clothes are not being worn. Continue to practice for several passes over the pipe. If no reaction can be obtained, the operator will not be able to use the 'Magnetomatic®'.
5. Once the basic reaction has been observed, repeat from different angles, observing the reactions of the

indicator. REMEMBER TO PROCEED SLOWLY OVER THE PIPE - the indicator will take a few moments to react and must be given the time!

6. When the operator is happy with the 'feel' of the instrument, a known buried pipe or cable should be used to practice under normal operating conditions. Repeat the above instructions, marking the indicated spot with chalk (code 12306) or other appropriate item e.g. Paint-Mark (code 16401-8), hardwood stakes (code 202200), all available from York Survey Supply Centre - please call for details.

#### Setting the Instrument

1. Grip the handle and extend the indicator to its full length - 61 cm (24').
2. Carefully fold the indicator over to an exact right angle (90°) against the handle. This removes friction on the shaft and will allow the indicator to rotate freely.  
THE RETAINING SCREW ON THE UNDERSIDE OF THE LOCATOR IS NOT AN ADJUSTMENT SCREW. ANY TAMPERING WILL VOID THE WARRANTY.

#### Operating and interpreting signals

1. Gripping the handle firmly and with the indicator parallel to the ground at a comfortable arms length, walk SLOWLY across the area being checked.
2. As soon as the indicator reacts, PROCEED VERY SLOWLY and the tip will swing towards the direction of the pipe. Passing beyond the pipe causes the tip to swing backwards - essentially pointing towards the pipe.
3. By moving VERY SLOWLY back and forth, the operator can see when the indicator is exactly over the pipe - the indicator will settle to parallel with the pipe.

#### Tracking the pipe.

Using the direction of the indicator, move very slowly forwards. The indicator will stay parallel with the pipe. If a terminus or elbow is detected, the indicator will swing through 180°, pointing back towards the end. Checking to each side of the terminus will determine if a 'T' junction or elbow has redirected the pipe.

#### Care in Storage

Do not leave the instrument in direct sunlight for an extended period of time, i.e. on a car dashboard or a metal toolbox in the back of an open truck. Always retract the indicator into the handle after use.

## Electric & Electronic Pipe, Cable & Metal Detectors

York Survey Supply Centre carries a wide range of detecting equipment for all purposes.

Please call for details.

#### Guarantee

This instrument is guaranteed  
for a period of 1 year  
from the date of purchase  
against material and/or manufacturing defects.