



SERVICE DATA SHEET

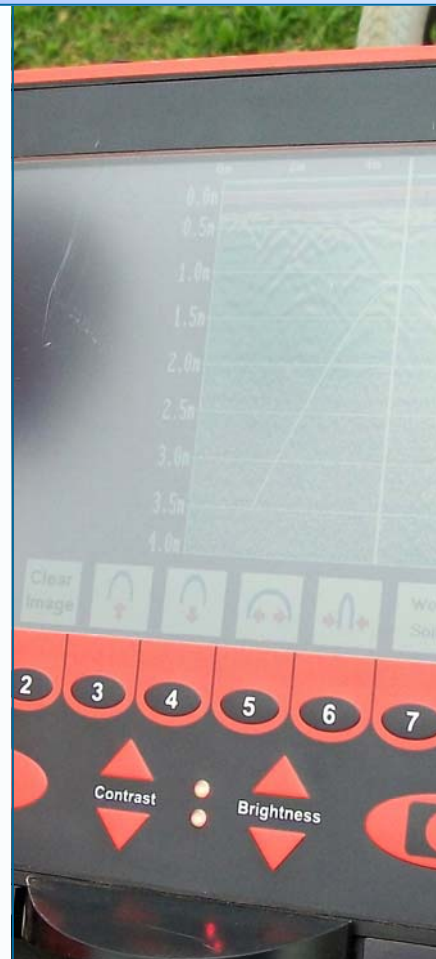
Cable Location Services

It is well documented what the devastating effects can be when an underground service is damaged during the development of an exploratory hole. Not only is there the likelihood of high repair costs but also the more potentially serious risk of injury or fatality to site operatives. Even when employing an industry standard safe system of working (permit-to-dig procedure) allied to the use of service drawings, Cable Avoidance Tools (CATs) and following-up with the safe digging of inspection pits using insulated hand-tools, there is still some degree of uncertainty. For instance service plans may not be accurate, cable avoidance tools may not accurately work in all situations and some services can be extensively deep.

The welfare of our employees is paramount in these circumstances and with this in mind the company has invested in additional precautionary systems. This includes the investment in a Ground Probing Radar (GPR) unit and Radio Frequency Location devices (receivers, transmitters, sondes, etc.), including where necessary, the support of accurate GPS location equipment. This equipment is industry standard and is used on a wide variety of types of apparatus, including telecommunications cables, gas and water pipes and electricity cables without affecting the apparatus.

Service Tools

- ◆ The use of our in-house RD1000™ portable ground penetrating radar system supplied by Radiodetection - a world leader in the design, manufacture and provision of underground pipe and cable locators. Our RD1000™ is a powerful addition to the company's existing CATs and associated Genny equipment.
- ◆ Using radar technology, the RD1000™ displays an image map of underground features. The operator can see a pipe or cable in its topographical context making it ideal for locating underground utilities. The advantage over a traditional, electromagnetic locator is that the RD1000™ can see non-conductive materials including plastic pipes.
- ◆ We have also purchased a Radiodetection RD8000™ radio frequency locator (RFL). The RFL unit is a sophisticated type of 'CAT and Genny' and consists of a passive receiver, which detects electromagnetic waves in a range of frequencies and a generator which induces a signal into conducting pipes and cables from 577Hz through to 200kHz.



Summary

Our GPR unit provides additional assurance against intersecting underground utility apparatus particularly in high risk urban areas.

Built from durable, weatherproof materials, the RD1000™ offers the site operative a comfortable and easy-to-steer unit that can operate in almost any terrain.

The RD8000PXL™ is the powerful successor to the industry standard RD4000PXL™ pipe and cable locators with improved speed, accuracy and reliability; all designed with the latest, patented digital firmware.

These new equipment additions are used where called upon to enhance our existing robust permit-to-dig procedures, or as a stand alone service to other investigation companies.

Benefits

- The RD1000™ and RD8000PXL™ improve the confidence in underground service avoidance significantly.
- There is extra cost involved although this is believed to be small in comparison with the potential benefits.
- The company offers appreciable in-house expertise in using this equipment.
- An additional service that benefits the welfare of our site operatives.

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