



CABLE ROUTE TRACER - CRT8 SYSTEM

Features :

- Route tracing of buried cables up to 10 km length
- Depth measurement of buried cables up to 3 m
- Identification of wanted cable from bunch of cables.
- Ground Survey for all underground metallic utilities
- Route tracing of live cables by inductive coupling
- Pin-Pointing of contact nature faults.

Specification :

Description

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Audio Frequency Generator - AFG 8

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|-----------------------|--|
| 1) Output | 1-2-4-8 Watts selectable. |
| 2) Output frequencies | 480Hz-1.45kHz-9.82 kHz selectable (All frequencies quartz-controlled) |
| 3) Matching | Matching of the Output impedance of the connected cable is carried out in the range 0.5.....1000 Ohms. |
| 4) Indication | Meter Indication of - relative transmitted power and charging condition of the accumulators. |
| 5) Current Supply | Mains connection 230 V AC 50Hz, or 12 VDC (e.g. car battery) or from built-in accumulators with charging |
| 6) Operation Time | 2.5 hrs. (8W) continuous operation with fully charge accumulators. In case of power battery drain or intermittent operation, the operating time will be correspondingly longer |
| 7) Dimension | 255 x 135 x 255 mm |
| 8) Weight | 4.9 Kg |

Audio Frequency Receiver - AFR 4 with active filter circuit

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|--------------------------|---|
| 1) Receiving Frequencies | 50 Hz-480Hz-1.45kHz-9.82kHz |
| 2) Gain | Broad-band 100.....7000Hz greater than 90dB |
| 3) Indication | LCD indication of signal modulation & battery check, recording of the peak value (during acoustic measurement) for approx. 2 seconds. |
| 4) Dimension | 240 x 155 x 110 mm |
| 5) Weight | 1.6 Kgs with batteries |

Universal Search Coil - SC4

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| 1) Receiving Frequencies | (50 Hz-480Hz)-1.45kHz-9.82kHz switchable |
| 2) Axis of coil | Can be swivelled 45 deg./90 deg. |
| 3) Dimensions | 470 x 80 x 207 mm |
| 4) Weight | 1.05 Kg (approx) |

Application :

— FUNCTION —

For Pin-pointing cable fault in buried cables, the system is used to determine exact lay of the cable. It also identifies the required cable in the bunch of cables. The system is employed to pin-point a contact nature fault where surge wave system can not be used. Ground survey and detection of Live loaded cables can be accomplished successfully by using the system.

— OPERATION —

- Audio Freq. Generator coupled to the cable directly / inductively generates connective electromagnetic field around it over its entire length.
- The presence of the above field is detected by a highly selective and sensitive receiver with a search coil
- Signal pattern at search coil offers depth measurement, location of joints and pin-pointing of contact nature fault.
- Signal Pattern received by a special probe facilitates identification of wanted cable among bunch of cables.
- The system successfully indicates presence of underground metallic utilities such as pipe lines and Live loaded cables.