

CRT 10D Cable Route Tracer



Description

Cable Route Tracer CRT 10D is an essential item in the kit for fault location of underground power and telecom cable network.

It is a powerful audio frequency system that can be effectively used for various unique functions such as route tracing of any metallic cable, depth measurement, live loaded cable tracing and ground survey of underground utilities.

The system is capable to trace route of underground cable maximum 10km, and find out the depth up to 5 meter, This method is found to give more accurate results in presence of other metallic utilities in close proximity.

The system can be used to trace route of loaded live cable with the help of receiver unit and search coil in passive mode.

It is also use to carry out ground survey and metallic pipe route tracing in inductive mode effectively.

Application

It is used for route tracing of any underground metallic cable in power transmission, distribution and signal cable networks or cable fault location service provider.

Features

- Route tracing of buried underground any metallic cables up to 10 km max length.
- Depth measurement of buried cables up to 5m.
- Portable and light weight, easy to use, powered by rechargeable battery, one person can operate, tests can be completed at once.
- Digital design, software control, stable and reliable performance
- With back light function, adapt to night operation.
- Large-screen LCD interface, easy to understand at a glance, easy to learn and understand.
- The measured information is provided to the operator in three ways: digital size, grating length, and voice priority, making the test process easy and free.
- The transmitter has constant power output and automatic matching to ensure that the machine is working in the best condition. The built-in ohmmeter function can automatically measure the loop impedance of the cable to the ground and between phases, which can assist in judging the nature of the fault.

*Specification subject to change without notice

*Pictures are for illustration purposes only



Working Principle

The Audio Frequency Generator injects an Audio frequency signal into the cable which generates an electromagnetic field around it.

This field is concentric to the cable & is present over the entire length. The presence of this field is detected by a highly selective and sensitive receiver with a search coil.

Function

The audio frequency signal is passing through the cable conductor an electromagnetic field of sending frequency is developed around on the conductor. When the search coil axis is passing in the developed field, it will sense the field and given to the receiver unit.

The receiver amplifies that signal and indicates in terms of maximum signal strength and sound in buzzer on the cable. When the search coil is going away from the field the signal indication and sound will reduce.

Specifications

Audio Frequency Generator AFG 10

Output Power	: 1, 2, 5 and 10 Watts selectable
Output Frequency	: 480Hz, 1450Hz & 9820Hz selectable
Impedance Matching	: From 0.5 to 1000 Ohms selectable
Indication	: Analog meter indication to indicate of transmitted power and charge condition of internal battery ON & Battery Charging Indication
Power Supply	: 230VAC \pm 10%, 50Hz Single phase, or external 12 Volt DC or Internal rechargeable accumulator
Operating Time	: Internal accumulator 1.5Hrs on 10 Watts Mains and Ext DC power supply no time limit
Storage Temp.	: -5 Deg C ~ 60 Deg C
Working Temp.	: 0 Deg C ~ 50 Deg C
Dimensions	: 270 (L) x 248 (W) x 175 (H) mm
Weight	: 5.45 kg Approx
Standard Warranty	: One Year
Standard Accessories	: Transmitter Tongs CTS120 Transmitter Coil TC 8 Connecting Cords Operating Manual

*Specification subject to change without notice
*Pictures are for illustration purposes only

Audio Frequency Receiver AFRD10

Receiving frequency	: Receiving three kinds of sinusoidal AC signals of different frequencies, namely low frequency, intermediate frequency, high frequency, 50HZ/60Hz.
Receiving mode	: Crest method (horizontal coil), trough method (vertical coil), external device method (A-frame,couplingclamp).
Signal interface	: Three interfaces of digital size, grating length, and voice prompt simultaneously indicate the strength of the signal
Display interface	: Large-screen,graphic display,with backlight
Gain control	: Manual adjustment, dynamic range 000-100db.
Detection length	: When directly connected to the cable, the maximum length is 10KM. When coupling cables, one coupling can measure 3Km, and multiple couplings are infinite. When the cable is inducted, it can measure 300m in one induction and infinitely in many times.
Depth measurement	: Direct reading detection depth, range 000-250cm. 80% method for measuring depth, range 000-250cm (induction)\ 500cm (direct connection)
Current measurement	: Direct reading current
Detection accuracy	: 5% of buried depth
Power source	: Standard No.5 1.2V rechargeable battery 6, charge and discharge 500times.
Stand by time	: More than 12hours, power prompt.
Over heating and over current	: automatic protection.
Working temperature	: -0°C ~ 50°C.
Volume	: 690 x 110 x 230mm
Weight	: 1.8 Kg Approx.

Telemetrics Equipments Pvt. Ltd.

Pune

www.telemetrics.in

5, 7 & 8 Electronic Sadan II, MIDC,
Bhosari, Pune - 411026
Maharashtra, INDIA.

sales@telemetrics.in

+91-20-27122936 / 27123176

CIN
U99999MH1976PTC 018745



TELEMETRICS EQUIPMENTS PVT. LTD.