UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

CRT 8 **Cable Route Tracer**

Description

Cable Route Tracer CRT8 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, by triangulation method. This method is found to give more accurate results in presence of other metallic utilities in close proximity.

The system is accurately identifying the wanted cable from the bunch of cables in communication network.

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 communication, power transmission, distribution and signal cable networks or cable fault location service provider.
It is also use to identification of wanted cable from bunch of cables in communication network.

Features

- Route tracing of buried underground any metallic cables up to 10 km max length.
- LCD Bar-graph on Audio frequency receiver unit for precise indication of cable route tracing.
- Route tracing of underground loaded live cables with passive frequency and inductive coupling.
- Peak and null reception methods for route tracing of cables.
- Depth measurement of buried cables up to 5m with triangulation method.
- Ground survey of underground metallic utilities.
- Pin-Pointing of contact nature faults.
- Possibility of injecting the signal in 220-240V live cables through separation filter (Optional)
- Inductive coupling in a particular cable using transmitter tong (Optional)
- Identification of cable from bunch of cables in communication cable network.
- Rugged construction and easy to carry on site.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

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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 bar-graph and sound in headphone on the cable. When the search coil is going away from the field the signal indication and sound will reduce.

Standard Accessories

- Transmitter Coil TC 8
- Cable Identification Probe CIP 3
- Headphone
- Earth Spikes
- Output connecting cables
- 5 pin connecting cable
- Mains cord
- Ext. DC supplies cord

Optional Accessories

- Transmitter Tongs CTS 120
- Separation Filter SF 8

Standard Warranty	**One Year**
Other models available	**Cable Route Tracer CRT 10 (Up to 10 Watt max)**

Specifications

Audio Frequency Generator AFG 8

Output Power	1, 2, 4 and 8 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	230V AC ±10 %, 50 Hz Single phase, or external 12 Volt DC or Internal rechargeable accumulator
Operating Time	Internal accumulator 1.5Hrs on 8Watts Mains and Ext DC power supply no time limit
Storage Temp.	-5 Deg C ~ 60 Deg C
Working Temp.	0 Deg C ~ 55 Deg C
Dimensions	270 (L) x 248 (W) x 175 (H) mm
Weight	5.45 kg Approx
Protection	IP 67

Audio Frequency Receiver AFR 4

Receiving Frequency	Passive - 50 Hz Active 480Hz, 1450Hz, 9820Hz selectable
Gain	More than 90 db
Indication	LCD Bar-graph display with scale illumination for signal strength & Battery status indication
Power Supply	8 x 1.5 V AA size alkaline batteries
Operating Time	8 to 10 hrs without scale illumination
Storage Temp.	- 5 deg C ~ 60 deg C
Working Temp.	0 deg C ~ 55 deg C
Dimensions	236 (L) x 187 (W) x 145 (H) mm
Weight	1.72 kg Approx
Protection	IP 67

Universal Search Coil SC 4

Receiving Freq.	50 / 480 Hz, 1450 Hz, 9820 Hz selectable
Axis of Coil	Can be swivelled 45 / 90 Deg
Extension of Coil	Telescope and Adjustable
Dimensions	470 (H) x 80 (W) x 207 (D) mm
Weight	0.85 kg Approx

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