

TECHNICAL SPECIFICATIONS

Type	Precision Pipe and Cable locator / Route tracer
Number of predefined Low frequencies available	15
Number of predefined Medium frequencies available	8
Number of predefined High frequencies available	13
Simultaneous Dual frequency available	yes
Gain control	Both Auto & Manual
Depth Measurement (in Transmitter Mode)	Upto 10 meter
Depth Measurement Accuracy (in Transmitter Mode)	± 5% or better
Display Size (Receiver)	3.7 inch
GNSS (GPS)	IN BUILT GPS
Data logging capability (Receiver)	Both Auto & Manual
Built-in Data logging memory (Receiver)	4 gigabyte
Capacity of the SD Card supplied (inclusive in the supply)	4 gigabyte
Power Source to the Receiver	Rechargeable Battery, Alkaline (non-rechargeable) Battery
Transmitter wattage (Minimum)	5Watt
Transmitter maximum voltage output	between 76V-99V
Display on Transmitter	Yes
Display Size (Transmitter)	2.5 inch
Information provided in the Transmitter Display	Output frequency,Battery Condition,Connected mode,Output Power level,Output Voltage,Output Current
Datalogging capability (Transmitter)	NA
Built-in Data logging memory (Transmitter)	0 gigabyte
Power Source to the Transmitter	Rechargeable Battery,Alkaline (non-rechargeable) Battery
Battery Chemistry (Transmitter)	Li-ion
Battery Chemistry (Receiver)	Li-ion
GPS (GNSS) Data Capability features	Onboard GPS (GNSS) module,Capturing / Export of Survey measurement data
Software Features	Locator Configuration,Survey measurements data collation and export,User Account Management,Free software updation during warranty period,Filter usage logging and survey measurement points on Google maps
"Accessories inclusive in the scope of supply (Select Only Applicable Accessories)"	Transmitter Signal Coupler / Clamp 100 mm dia with 2 meter connection lead,Battery Charger (only incase of Rechargeable Battery), Direct connection lead with magnets, 10 meter extension cable, Earth stake - 1 no., Suitable Carry bag, Instruction Manual

WARRANTY (FOR BOTH TRANSMITTER AND RECEIVER)	3 year
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APPLICATION / FREQUENCY / PERFORMANCE	
Application	Pipe and Cable Locator / Route Tracer is useful for precise locating or tracing (or both) of underground utilities such as power cable, armoured telecom cables & pipelines etc.
Components / Working Principle	A typical Pipe and Cable Locator / Route Tracer consists of a Receiver, a Transmitter, connection leads and ground stake. The Receiver detectselectromagnetic signals radiating from metallic cables, power cables, armoured telecom cables & pipelines etc., both in active and passive modes.
Type	Precision Pipe and Cable locator / Route tracer
Frequency Range	Low Frequency (between 200 Hz and 1.1 kHz),Medium Frequency (between 1. 2 kHz and 44 kHz),High Frequency (between 45 kHz and 500 kHz)
Number of predefined Low frequencies available	15
Number of predefined Medium frequencies available	8
Number of predefined High frequencies available	13
Simultaneous Dual frequency available	yes
RECEIVER	
Receiver - inclusive in the scope of supply	Yes
Receiver Housing Material	High Impact Resistant ABS
Gain control	Both Auto & Manual
Operating Modes in the Receiver	Transmitter Mode, Power Mode, RF / Radio Mode, Signal Current Measurement Mode, Left Right Arrow Mode, Compass Mode, Peak Mode, Peak, Null & Pinpoint Peak Modes
Depth Detection range in Power	3 meter
Depth Detection range in RF mode	3 meter
Depth Measurement (in Transmitter Mode)	Upto 10 meter
Depth Measurement Accuracy (in Transmitter Mode)	± 5% or better
Predefined frequency at which Receiver Sensitivity is declared	33 kiloHertz
Receiver Sensitivity at declared predefined frequency	5 micro Ampère
Display on Receiver	Yes
Type of Display (Receiver)	LCD with backlight

Display Size (Receiver)	3.7 inch
Information provided in the Receiver Display	Locating Mode Indication, Bar graph Display, Left/Right Arrows, Depth measurement, Line orientation (compass),Antennae operating mode, Continuous Battery Check, Operating frequency, Volume level, Current direction, GPS Status
Number of Antennas (Vertical + Horizontal + Compass)	4 or more
GNSS (GPS)	In-built GPS
Data logging capability (Receiver)	Both Auto & Manual
Data logging file formats (Receiver)	csv
Built-in Data logging memory (Receiver)	4gigabyte
Receiver Interface (connectivity)	Micro SD Card, Mobile App, Bluetooth
Capacity of the SD Card supplied (inclusive in the supply)	4 gigabyte
POWER SOURCE / BATTERY FOR RECEIVER	
Power Source to the Receiver	Rechargeable Battery, Alkaline (non-rechargeable) Battery
Battery Chemistry (Receiver)	Li-ion
Battery size (Receiver)	Other
Capacity of Battery (Receiver) (Ah)	5.2Ah
Battery back-up time under continuous operation (for Receiver)	30 hour
Number of Batteries Required for operation (Receiver)	1
Number of Batteries supplied (for Receiver) inclusive in the scope of supply	1
SALIENT FEATURES OF THE RECIVER	
Salient Features of Receiver	Push button for Mode Selection;, Impact resistant replaceable wear boot, Audio, Visual indication,, Auto Depth measurement, Auto Current measurement push button depth measurement, push button current measurement ,Noise cancellation from overhead power cables, Shallow depth alarm,
TRANSMITTER	
Transmitter compatible to the Receiver - inclusive in the scope of supply	Yes
Transmitter Housing Material	High Impact Resistant ABS
Transmitter wattage (Minimum)	5 Watt
Transmitter maximum voltage output	between 76V-99V
Operating Modes in the Transmitter	Induction Mode, Clamp Mode, Direct Connection Mode
Controls in the Transmitter	Frequency Modulation, Frequency Selection, Output Level

Display on Transmitter	Yes
Type of Display (Transmitter)	LCD with backlight
Display Size (Transmitter)	2.5 inch
Information provided in the Transmitter Display	Output frequency, Battery Condition, Connected mode, Output Power level, Output Voltage, Output Current
Datalogging capability (Transmitter)	NA
Datalogging file formats (Transmitter)	NA
Built-in Data logging memory (Transmitter)	0 gigabyte
Transmitter Interface (connectivity)	NA
POWER SOURCE / BATTERY FOR TRANSMITTER	
Power Source to the Transmitter	Rechargeable Battery, Alkaline (non-rechargeable) Battery
Battery Chemistry (Transmitter)	Li-ion
Battery size (Transmitter)	NA
Capacity of Battery (Transmitter) (Ah)	7.8
Battery back-up time under continuous operation (Transmitter)	8 hour
Number of Batteries Required for operation (for Transmitter)	1
Number of Batteries Supplied (for Transmitter)	1
SALIENT FEATURES OF THE TRANSMITTER	
Salient Features of Transmitter (Select Applicable features Only)	Fault locating Mode for sheath fault locating, Audio, Visual indication, Voltage boost option
GENERIC	
GPS (GNSS) Data Capability features	On board GPS (GNSS) module, Capturing / Export of Survey measurement data
Software Features	Locator Configuration, Survey measurements data collation and export, User Account Management, Free software updation during warranty period, Filter usage logging and survey measurement points on Google maps
Bluetooth survey measurement data protocols	ASCII
Compliance to safety standards (both Receiver & Transmitter) including battery as per law of the land	Yes

ACCESSORIES INCLUSIVE IN THE SCOPE OF SUPPLY	
"Accessories inclusive in the scope of supply (Select Only Applicable Accessories)"	Transmitter Signal Coupler / Clamp 100 mm dia with 2 meter connection lead,Battery Charger (only incase of Rechargeable Battery), Direct connection lead with magnets, 10 meter extension cable, Earth stake - 1 no., Suitable Carry bag, Instruction Manual
Optional Accessories inclusive in the scope of supply	CARRY BAG
OPERATING CONDITIONS / INGRESS PROTECTION	
Receiver Minimum Operating Temperature	-20 degree Celsius
Receiver Maximum Operating Temperature	55 degree Celsius
Transmitter Minimum Operating Temperature	-20 degree Celsius
Transmitter Maximum Operating Temperature	55 degree Celsius
Enclosure Ingress Protection (Receiver)	IP 65
Enclosure Ingress Protection (Transmitter)	IP 65
WARRANTY	
WARRANTY (FOR BOTH TRANSMITTER AND RECEIVER)	3 years