



T-L300 Cable and Pipe Locator

In many applications, precise information about the position of buried utility lines is essential, so they can be avoided during groundwork. Plans, if available, will help but sometimes they prove inaccurate. The T-L300 provides a direct method of identifying the location of both live and dead cables as well as pipes. The use of a variable frequency transmitter allows their detection without interference from separate mains frequency utilities. The system features a number of different sensors, making it suitable for route tracing, depth measurement, fault location and cable identification where several cables are grouped together.

Features

- Directly displays the pipe position and any deviation to the left or right of the route
- High sensitivity, 2 Hz ultra-narrow band, high anti-interference ability
- Real time depth and current measurements
- Current direction measurement to avoid interference from adjacent cables
- Enhanced passive detection, so multiple pipelines can be displayed simultaneously
- Low impedance fault pinpointing
- High power transmission and high sensitivity receiver
- Enhanced depth measurement, greater than 10 meters
- Auxiliary depth sensor for interference warning
- Light-weight with intuitive user interface

Optional features

- Global Navigation Satellite System (GNSS) utilising L1 and L5 signals for accurate positioning and distance measurements
- Bluetooth communication module for transmitting test data to a local PC or tablet

Specification: Transmitter

- Output:
 - Direct connection output
 - Clamp coupling output
 - Radiation output
 - Fault location booster (Optional)
- Output frequency:
 - Direct connection: 640 Hz, 1280 Hz, 8 kHz, 33 kHz, 82 kHz, 197 kHz. Here 640 Hz and 1280 Hz are complex frequency.
 - Clamp coupling: 640 Hz, 1280 Hz, 10 kHz, 33 kHz, 82 kHz.
 - Radiation: 10 kHz, 33 kHz, 82 kHz, 197 kHz
- Output power: maximum 15W, 10 steps.
- Output voltage: Maximum 200V, adjustable according to the load.
- Impedance matching: Fully automatic.
- Overload and short protection: Fully automatic.
- HMI: 320 × 240 pixel LCD.
- Internal battery: 4 nos. Lithium-ion battery, 7.4V, 6.8Ah.
- Charger: Input: AC100-240V, 50/60Hz
Output: DC8.4V, 2A.
- Operating conditions:
 - Temperature: -10°C to +40°C
 - Humidity: 5-90%RH
 - Altitude: <4500m
- Dimension(mm): 280×220×90mm (main unit)
- Weight: 2.3kg for the main unit.

General

- Working condition:
 - Temperature: -10°C to +50°C
 - Humidity: 5-90%RH
 - Altitude: <4500m

Sensors



Transmitter clamp



Flexible sensor



A-Frame support (optional)



Auxiliary depth measurement sensor



1kV fault location booster optional



Current sensor

Specification: Receiver

- Signal input:
 - Internal receiving loop
 - Flexible sensor
 - Current sensor
 - A-Frame support
- Receiving frequency:
 - Active frequency: 640 Hz, 1280 Hz, 8 kHz, 33 kHz, 82 kHz, 197 kHz.
 - Passive detection frequency: 50/60 Hz
 - Radio frequency (RF), 4-24 kHz
 - Cable identification: 640 Hz, 1280 Hz.
- Pipe detection mode:
 - Intelligent Peak Method (Wide): Suitable for active detection.
 - Peak Method: Suitable for passive detection.
 - Narrow Method.
 - Null Method.
- Cable Identification: Flexible coil identification
- User Interface: 320×240 colour LCD, sunlight readable
- Internal battery: Lithium cell battery 7.4V, 3.4Ah.
- Charger: Input: AC100-240V, 50/60Hz
Output: DC 8.4V, 2A.
- Dimensions: 680×277×120mm (main unit)
- Weight: 2.0kg (main unit)

- Ingress protection IP54

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