

DOCUMENT TITLE

CTI-SURVEY

In-Tunnel Coverage Drive Test Survey

One important maintenance task in a tunnel radio system is the coverage test, which is basically a field strength survey.

The Receive Signal (Rx) is constantly measured (sampled) on a RF communications monitor. Data is downloaded to a portable personal computer and plotted on chart "Rx Level versus Distance".

Most other commercial drive test survey products are designed for outdoor as they use the GPS signals to determine location & distance. Therefore, they do not work in underground tunnels (highways or subways).

The CTI Survey Kit is a hardware and software package that allows capturing & recording in a PC the Receive Signal Level (or SINAD) together with the traveled distance from the provided external odometer.

CTI-Survey Kit components

The following deliverables are part of the CTI-Survey Kit:

- External Pulse Sending Unit (wheel turns' sensor) with DB-9 connector for interface with Odometer Data Acquisition Unit.
- External Odometer Data Acquisition Unit, including CD-ROM with software drivers for MS-Windows 2000/XP and USB cable, DB-9 break-out cable for interface with wheel sensor.
- CTI-Survey Software application and MS-Excel® Macro file.
- Installation and User's Guide Manual on hardcopy

Features:

- Hall-effect magnetic sensor.
- USB portable DAQ unit with integrated 32-bit counter.
- Fully graphic and intuitive screen interfaces.
- Automated MS Excel® macro for post-processing the captured data to create graphical representations (plots) showing RF Signal Level (or SINAD) versus distance.
- Windows 2000® and Windows XP® compatible.

