

HI-TRAC[®] UTC-L (BP)

UNIVERSAL TRAFFIC COUNTER & BUS PRIORITY SYSTEM

The HI-TRAC[®] UTC-L (BP) is a small, low powered, low cost electronic system that can be used to accurately detect buses and transmit an alarm to the Traffic Signal Controller to extend the Green Light to allow the buses through, or to provide a "hurry call" which forces the controller to the demanded stage as quickly as possible.

The UTC-L has 2 configurable alarm outputs ideal for Bus Priority applications.

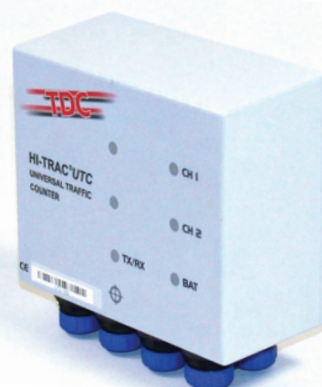
The UTC-L uses the established TDC Systems Ltd Advanced Loop Profiling function. This function utilises an Advanced Vehicle Loop Signature Identification Algorithm in the embedded software which is used to detect mixed traffic whilst recording vehicle classification, speed, wheelbase, gap and headway.

Modifications have been carried out on the UTC-L (BP) algorithms to eliminate false positive bus detections.

The UTC-L unit is sealed to IP68 and is usually installed into the traffic signal controller cabinet. If necessary the unit can also be installed in a post a small roadside pillar or into a small sub-surface chamber.

The UTC can be configured to automatically transmit traffic data via GPRS to a web server for secure data storage to a database. GSM dial-up communications is also supported.

The storage Media Drive can be used to provide storage of over 3,000,000 vehicle records.



FEATURES

- 8 x Inductive Loop Sensor
- Bluetooth Antenna Module (Laptop Communications)
- GSM/GPRS Embedded Modem and SIM Card Holder
- GSM/GPRS Modem Antenna
- 2 x Switched Alarm Output
- Battery Power Input (6-24V DC)
- Sealed to IP68
- Vehicle-by-Vehicle (VBV) data storage
- Programmable Vehicle Classifications
- Single Loop Speed & Classification Detection Mode
- Enhanced algorithm designed to eliminate false positive bus detections



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TECHNICAL INFORMATION

ACCURACY DATA

Volume	99%
Gap	±8%
Speed	±1.5%
Length	±8%
Headway	±7%
Speed Range	1 to 180 kph

AVC ACCURACY (EURO 6)

Class 1: Motorbike	95%
Class 2: Cars/Vans	97%
Class 3: Cars/Vans + Trailer	97%
Class 4: Rigid HGV	97%
Class 5: Articulated HGV	97%
Class 6: Buses & Coaches	95%*

*Modifications have been carried out on the UTC-L algorithms to eliminate false bus detections.

LANE CAPACITY

4 Lanes Loop-Loop

STORAGE CAPACITY

32 Mb Flash Mass Storage Media Drive
3,000,000 Vehicle VBV Records

INPUT/OUTPUT PORTS

- 8 Nos. Inductive Loop Inputs
- 1 No. GPRS/GSM Modem
- 1 No. Bluetooth[®]
- 2 Nos. Triggered Outputs

POWER

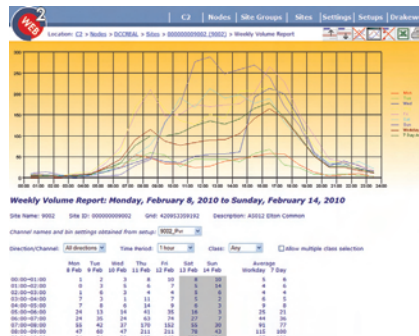
7.2v Battery 18AH Lithium
Thionyl Chloride

SOFTWARE

HI-COMM 100 Compatible
HI-COMM EZY Compatible
HI-COMM LITE Windows Mobile
Application (for suitable mobile phones)

Drakewell C2 Software Suite Compatible

Data hosting by TDC/Drakewell or by client secure data transmission to C2 database.



Drakewell C2, C2 Web Reports

INSTALLATION

Two loop sensors per traffic lane.

UTC electronics housed in above ground pillar or post or sub-surface chamber.

Typical installation time – 2 hours



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