The HI-TRAC® CMU is a small, low powered, low cost electronic system capable of monitoring up to 2 cycle lanes and 2 pedestrian lanes. The CMU uses established piezo-electric sensor technology to detect bicycles in either dedicated cycle ways or mixed traffic lanes as well as pyroelectric infra red sensors to detect pedestrians.

Unique algorithms developed by TDC Systems Ltd measure the axle count, speed and wheelbase to distinguish true bicycles from other traffic including child scooters, prams, trolleys, motorbikes and mopeds.

The CMU is powered by a small, sealed lithium battery mounted externally to the unit. The CMU battery life for standard operation is 2 years.

The CMU unit is sealed to IP68 and can be installed into either a small pillar or post or into a small sub-surface chamber.

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

- Detects: Bicycles, Bicycle Clusters, Bicycles in two directions, Bicycles with Pedestrian walking and Bicycles made of non-metal materials including Carbon-Fibre
- Measures: Speed, Direction and Gap/Headway
- Vehicle-by-Vehicle (VBV) data storage
- Installed into dedicated cycle ways or mixed traffic lanes
- GPRS/GSM Telemetry Option
- Bluetooth® Option
- Pedestrian detection using pyroelectric infra red sensors
HI-TRAC® CMU
CYCLE & PEDESTRIAN MONITORING UNIT

TECHNICAL INFORMATION

STORAGE CAPACITY
4 Mb Flash Mass Storage Media Drive

INPUT/OUTPUT PORTS
4 Nos. Piezo Sensors
2 Nos. GPRS/GSM Modern
1 No. Bluetooth
2 No. Triggered Outputs

POWER
7.2v Battery 18AH Lithium
Thionyl Chloride

DIMENSIONS & WEIGHT
120 X 120 X 60 mm (w d h) : 1 kg

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.

INSTALLATION

Two piezo electric sensors per cycle lane or mixed traffic lane.

One pyroelectric infra red sensor per walkway.

CMU electronics housed in above ground pillar, post or in a sub-surface chamber.

Typical installation time – 2 hours.

Drakewell C2, C2 Web Reports