

HI-TRAC® UTC-P

HIGHLY ACCURATE AND VERSATILE UNIVERSAL AXLE CLASSIFIER



OVERVIEW

With unrivaled flexibility, the HI-TRAC® UTC-P is a highly accurate, low cost universal axle classification system capable of monitoring up to four lanes of traffic with programmable vehicle categorizations. Using powerful piezo-electric sensors installed in the roadway, it detects mixed traffic and allows the agency to:

- Classify and count vehicle types
- Identify annual and seasonal traffic trends
- Monitor traffic to correlate changes in transport patterns
- Analyze the impact of heavy traffic flow on infrastructure

With superior power efficiency and low power consumption, the unit is designed for long-term use. Power is supplied by a small cabinet-mounted solar panel and supported by two internal rechargeable batteries to form a fully standalone permanent solution.

The HI-TRAC UTC-P can be configured to automatically transmit reliable axle classification data to a web server for secure storage. Remote connection to the unit is also supported to configure, diagnose, and download data manually. Data can then easily be exported to user-friendly formats for analysis and reporting.

BENEFITS

- Detect mixed traffic, vehicle classification, speed, axle count, direction, wheelbase, and gap/headway
- Monitor up to four lanes
- Install in the roadway as a low profile, non-obtrusive permanent solution
- Access traffic information in real-time or for future comprehensive reporting
- Transmit data via internal 2G/3G/4G modem or Ethernet (TCP/IP) for download, diagnostics, and configuration

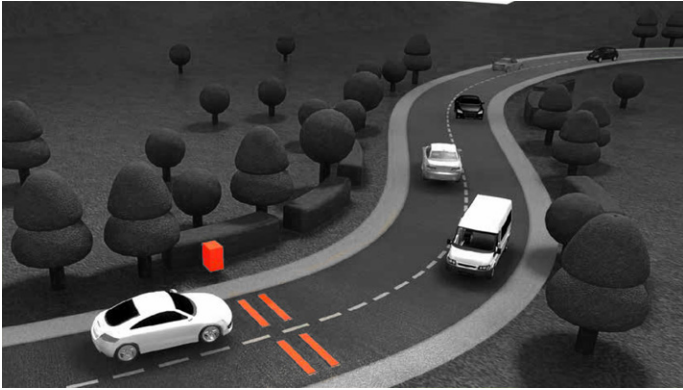


HIGHLY
ACCURATE
CLASSIFICATION

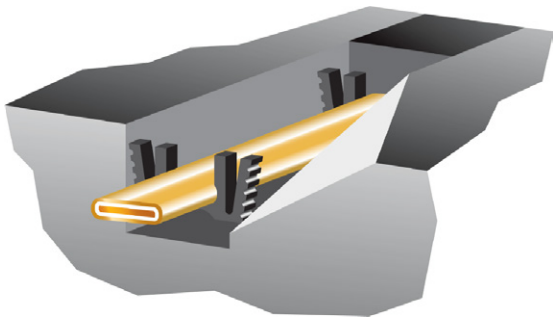


MONITOR UP TO
FOUR
TRAFFIC LANES

Example HI-TRAC® UTC-P installation



In-road piezo-electric sensor illustration



INSTALLATION

The HI-TRAC UTC-P in-road axle classifier unit is permanently installed in the roadway as a standalone solution. Shallow and narrow cuts are made in the pavement to install the piezo-electric sensors.

- Two piezo-electric sensors per traffic lane
- Electronics housed in roadside cabinet
- Typical installation time: < 3 hours

DATA REPORTS & HOSTING

- HI-COMM 100 compatible
- Data reports: MS Excel / CSV, Graphs, and TMAS
- Data hosting: InfoQus, C2 Web, MS2, and Transmetric
- Android app for Bluetooth easy set-up and data retrieval
- Data download, analysis, real-time vehicle-by-vehicle (VBV) view, report generation, and diagnostics

TECHNICAL SPECIFICATIONS

Dimensions (HWD):	4.3" x 4.7" x 2.4" (10.9 cm x 11.9 cm x 6.1 cm)
Weight:	3.3 lbs (1.5 kg)
IP rating:	IP68
Power supply:	Internal: 6V 10Ah lead-acid rechargeable battery External: Integrated 3W solar panel or mains
Storage capacity:	8GB microSD non-volatile 365-day vehicle-by-vehicle (VBV) capacity
Input/Output ports:	Piezo-electric sensors (8) 3G/4G modem or Ethernet (TCP/IP) (1) Bluetooth (1) Triggered outputs (4)
Sensor type:	Piezo-electric



HI-TRAC® UTC-P unit