

HI-TRAC® 90T

HIGH-SPEED TRAFFIC DATA COLLECTION SYSTEM



SYSTEM DESCRIPTION

The HI-TRAC® 90T is a traffic data collection system that can be configured as a weigh-in-motion (HSWIM) system or an automatic vehicle counter/classifier (AVC).

The unit incorporates interfaces to both piezo electric sensors and inductive loop sensors.

The HI-TRAC® 90T is packaged in a strong, secure clamshell and intended for temporary installations.

The HI-TRAC® 90T can be powered from either built-in rechargeable batteries or solar panel with associated battery and charge regulator.

GSM and GPRS communications options are available. The HI-TRAC® 90T clamshell can also be fitted with a small, vandal proof antenna.

FEATURES

- Connects to 4 Piezo Electric Sensors
- Connects to 8 Inductive Loop Sensors
- 4 Lanes of Counter/Classifying using Loop-Loop Profiling
- 2 Lanes Piezo-Loop-Piezo WIM
- 4 Lanes Loop-Piezo-Loop WIM or AVC
- Vehicle-by-Vehicle Data Recording
- Euro 6 Classification or User Defined
- Traffic Alerting, Event Monitoring and Incident Detection
- GSM and GPRS Communications for Data Download, Real Time View and Diagnostics
- Laptop Connection
- Built-in GSM/GPRS Modem



TECHNICAL INFORMATION

WIM ACCURACY

Piezo-Loop-Piezo	±10% GVW
Loop-Piezo-Loop	±15% GVW
WIM Speed Range	1 to 200 kph

Note: Gross vehicle and axle weight accuracy with 90% confidence.

Axle weight accuracy assumes road sensors installed in a surface compliant with COST 323 Class B(10) or ASTM E1318-02 specifications.

AVC ACCURACY

Length	±8%
Headway	±7%
Speed	±1.5%
AVC Speed Range	1 to 200 kph

LANE CONFIGURATIONS

Loop	Volumetric
Loop-Loop	AVC
Loop-Piezo-Loop	AVC or WIM
Piezo-Loop-Piezo	WIM

LANE CAPACITY

8 Lanes	Loop (Volumetric)
4 Lanes	Loop-Loop
4 Lanes	Loop-Piezo-Loop
2 Lanes	Piezo-Loop-Piezo

STORAGE CAPACITY

4 Mb Battery backed RAM
Upgradeable to 6Mb or 8Mb

400,000 Vehicle VBV Records – 4Mb RAM

OUTPUT PORTS

RS232	Laptop (Front Panel Mounted)
RS232	Modem

POWER

6v Sealed Lead Acid (Rechargeable)
8AH / 16AH / 24AH / 32AH Options

OPERATING TIME (BETWEEN CHARGING)

Approx. 60 Days (32AH Battery Option Fitted)

OPERATING TEMPERATURE

-20°C to +65°C



SOFTWARE

HI-COMM 100 and HI-COMM EZY Compatible:
Data Download, Analysis, Real Time VBV View,
Report Generation & Diagnostics



Drakewell C2, C2 Web Reports



ROAD INSTALLED ITEMS

Robust and reusable low profile temporary
inductive loop sensors (4,000,000 vehicle passes)

Piezo electric sensors and/or inductive loop
sensors permanently installed at multiple
short-term survey locations

DIMENSIONS & WEIGHT

H =	235mm (255mm with antenna)
W =	275mm
D =	230mm (295mm inc handle)
	8 kg

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