# HI-TRAC® EMU3

# EVENT MONITORING UNIT, WIM & CLASSIFICATION SYSTEM

- MULTIPLE ARRAY CONFIGURATION OPTIONS
- LOW POWER CONSUMPTION IDEAL FOR SUSTAINABLE POWER SUPPLIES
- INTEGRATES WITH CYCLE DETECTION AND BLUETOOTH JOURNEY TIME SYSTEMS



#### **OVERVIEW**

The HI-TRAC® EMU3 is the 3rd generation of the very successful HI-TRAC EMU system which now includes 32MB on-board Flash Memory and standard 8GB Micro SD Memory which is expandable to 32GB. The system boasts greater processing power and much lower power consumption. Laptop USB connection and an additional auxiliary communications port is also included as standard.

The unit incorporates interfaces to both piezo electric sensors, inductive loop sensors, and a road installed temperature probe.

The HI-TRAC® EMU3 can be powered from either mains supply or solar panel and associated battery & charge regulator.

The HI-TRAC® EMU3 has an intergrated communications device that supports GPRS, 2G, 3G, 4G and Ethernet TCP/IP communications as well as legacy GSM dial up.

#### **Detection options include:**

- Weigh-in-Motion
- Axle Classification
- Loop Profiling Classification
- Cycle Classification

#### **KEY FEATURES**



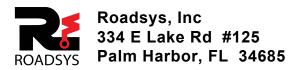












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# ADDITIONAL FEATURES

- Traffic Alerting, Event Monitoring and Incident Detection
- BLUETOOTH Mac Address Reader Interface for Journey Time Measurement and Traffic Movement Tracking
- · Vehicle-by-Vehicle (VBV) Data Recording
- Pre-programmed or user defined classification schemes (e.g. EURO 6, UK DfT, FHWA, AUSTROADS)
- Communications via internal or external GSM/GPRS/2G/3G/4G for Data Download, Diagnostics and Configuration
- External Connections via USB or RS232 inc front panel laptop connection.

# INSTALLATION

 Piezo electric sensors and inductive loop sensors permanently installed in highway.



- HI-COMM 100 Compatible:
- Data Download, Analysis, Real Time View & Diagnostics
- Data hosting and reporting services







# TECHNICAL SPECIFICATIONS

#### WIM ACCURACY DATA

Piezo-Loop-Piezo ±10%
 Loop-Piezo-Loop ±15%
 Speed ±1.5%
 WIM Speed Range 20-180 kph

#### **AVC ACCURACY**

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

### LANE CONFIGURATIONS

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

#### LANE CAPACITY

16 Lanes Loop Volumetric
8 Lanes Loop-Loop
8 Lanes Loop-Piezo-Loop
8 Lanes Piezo-Loop-Piezo
8 Lanes Piezo-Piezo

#### **INPUT/OUTPUT PORTS**

USB2 Laptop
 RS232 Modem
 RS232 Auxiliary Port (Bluetooth, VMS, Controller or other)
 2 Channel OPTO Output Sign Activation
 2 Channel OPTO Input Cabinet Switch, Over Height Detection

#### STORAGE CAPACITY

- 32 Mb on-board Flash Memory
- 8 Gb MicroSD Memory (standard) Expandable to 32Gb
- 800,000,000 VBV WIM Records (8 Gb)

## POWER SUPPLY

EMU Supply
 EMU Power Consumption
 Cabinet Mounted Solar Panel
 10W

• Optional 12V DC or AC Mains via Low Voltage Adapter

# **DIMENSIONS & WEIGHT**

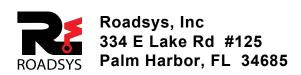
• W - 270mm • D - 100mm • H - 225mm

• Weight: 5kg

#### SHIPPING DIMENSIONS & WEIGHT

• W - 360mm • D - 320mm • H - 280mm

• Weight: 7kg



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