

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 integrated 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, AUSTRROADS)
- 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.



SOFTWARE

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

TECHNICAL SPECIFICATIONS

WIM ACCURACY DATA

- | | |
|--------------------|-------------|
| • Piezo-Loop-Piezo | $\pm 10\%$ |
| • Loop-Piezo-Loop | $\pm 15\%$ |
| • Speed | $\pm 1.5\%$ |
| • WIM Speed Range | 20-180 kph |

AVC ACCURACY

- | | |
|-------------------|-------------|
| • Length | $\pm 8\%$ |
| • Headway | $\pm 7\%$ |
| • Speed | $\pm 1.5\%$ |
| • 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 | 6V DC |
| • EMU Power Consumption | 0.1W |
| • 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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