Mikros Systems

UNITEL

Compact Classifier

Versatile for use with permanent and temporary sensors

The Mikros UNITEL compact traffic classifier is an accurate traffic data logger that complies with and is certified to the strict TMH3 B1 specification ensuring highly reliable traffic data collection.

The **UNITEL** is available in three basic models to suite the user requirements:

UNITEL-4L : Four lane two loops per lane.

UNITEL-8L : Eight lane two loops per lane.

UNITEL-4P : Four lane LPL or PLP configuration.

Description

The Mikros Systems UNITEL is a compact traffic classifier that is equipped with:

- High performance crosstalk-free digital loop detector.
- Digitally configurable Piezo interface.

Major features

- Flexible sensor configuration.
- Comprehensive sensor status and long-term performance diagnostics.
- Downloadable firmware and system updates.
- Quick setup mode.
- Built-in coincidence detection.
- Multiple traffic data logging options (VBV and-or binned data)
- User selectable classification schemes.
- Post processing that allows for re-classification to any scheme.
- Hot swappable battery management.
- Low voltage managed shut down.
- Controllable (time slots) supply power for external devices (12V – 0,5Amp)

Setup and communications software

The UNITEL is supported by the Mikros Systems **TelWin** program allowing for detailed on site and remote monitoring.
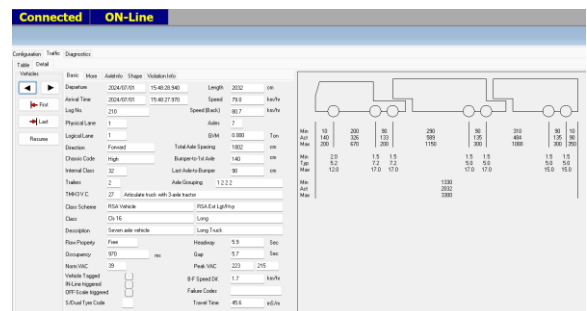
Detailed instrument, sensor and site performance is monitored.
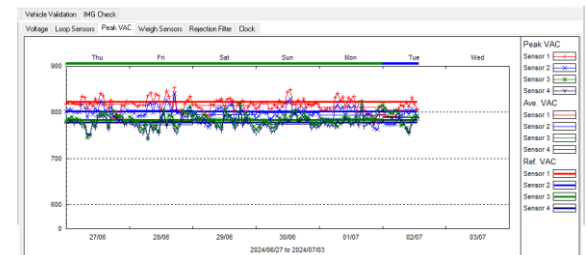
Data management

All raw data is stored in an encoded secure binary format, with exports to a wide range of standard data formats including all relevant FHWA card formats. The Mikros Systems **TrafBase** data management program is available with a complete

and wide range of validation, data storage and reporting modules.

Vehicle by Vehicle data

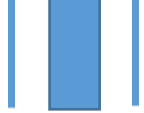The UNITEL supports either Metric or Imperial units.

The UNITEL records and transmits the following basic vehicle information depending on selected sensor configuration:

- Lane number
- Driving direction
- Arrival (departure) time
- Vehicle length
- Loop signature code
- Vehicle class code
- Vehicle speed
- Number of axles*
- Individual axle spacing*

Available sensor configurations

Configuration	Description
	Single Piezo
	Dual Piezo
	Single Loop
	Dual Loop
	Loop Piezo Loop
	Piezo Loop Piezo

Optional accessories

- Field housing (chainable)
- 12V Pb sealed lead acid battery.
- Lithium-Ion battery
- Smart charger
- Cellular modem (GPRS/3G/4G)
- PUK Antennae
- Bluetooth serial adapter (sold separately)
- Stick-on inductive loops
- Stick-on axle sensors

Technical Data

Dimensions:	320 x 44 x 220 mm
Weight:	1,2 kg
Voltage supply:	12 v (nominal)
Current consumption:	65 mA
Communication:	2 x high speed serial
Data storage:	32 Mb flash
Sensor inputs:	8-16 inductive loops *
	8 Piezo axle detectors *
	* Model dependant