

# RAKTEL 1010

## Universal Traffic Event Logger

*Counter, Classifier*

- Reliable permanent traffic monitoring
- Multi sensor input
  - Loop only
  - Loop plus axle sensor
  - Axle sensor only
- Flexible sensor configurations
- High performance cross-talk free digital loop detector
- Interfaces for all the popular axle sensors
  - Piezo cable
  - Piezo strip
  - Fibre optic
- RAKTEL 1010 is a major upgrade from the RAKTEL 1000
  - Increased loop sensitivity
  - Improved piezo axle detection
  - Enhanced classification
  - New power management
- The RAKTEL 1010 is a scaled down version of the RAKTEL 4010.
- Modular design, card frame allowing limited configuration options
- Active lightning protection
- Digital chassis height detection
- Comprehensive system & sensor performance monitoring
- Anti-coincidence detection
- Tidal flow and reverse direction recording
- User friendly set-up and complete diagnostics
- Range of most popular classification algorithms
- Provision for all popular data formats
- User modifiable parameter sets
- Complete software support
- Supports serial, GSM & GPRS communications
- Low power consumption
- Solar charging
- Hot swappable batteries



**Mikros Systems**



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# RAKTEL 1010 **Summary Specifications**

## ● Sensor inputs

- 8 Channel self tuning digital loop detector.
- 8 Channel axle interface (for piezo or fibre optic sensors)

## ● Sensor configurations

*A number of sensor configurations are available:*

- Single loop only, dual loop only, single loop plus axle sensor, single loop plus dual axle sensor or dual loop plus axle sensor.
- Either one loop detector or one loop detector plus one axle interface.

## ● Straddle check & reverse logging

- Coincidence detection of vehicles traveling on adjacent lanes (and straddling a lane line).
- Re-assigning of reverse flow on lanes to other lane numbers allowing for tidal flow recording.

## ● Multiple traffic logging options

- Vehicle By Vehicle data can be recorded as well as binned data.
- Class bins, speed bins (up to 20)
- VBV information: (metric or imperial)
  - Lane of travel
  - Arrival time
  - Speed
  - Length
  - Chassis profile
  - Axle spacing
  - Class code(FHWA,RSA,UERO,AUSTROAD & other).

## ● Communication modes

- Direct RS232 , local and remote via modem
- GSM, GPRS

## ● Data extraction & control

- Local or remote via laptop or PC

## ● Diagnostics

- Complete local and remote sensor & system status monitoring with dynamic graphical display.

## ● Software support

- **TelWin** (range):

Support program for complete set-up, data extraction and monitoring function. Both for local and remote access.

Features: manual, automatic and scheduled dialing, data conversions to all popular formats, exports to spreadsheets.

- **TrafBase** (range):

Data validation, processing, reporting and archiving programs. A detailed data validation ensures high quality information.

## ● Power management

- High efficiency power management and solar charge regulation.
- Mains supply & charger (110V - 230V)
- 12V DC batteries
- Battery low protection and cut out
- Hot swappable battery system
- Controlled power to external devices

## ● Weight & dimensions

- 4.1 kg : 7.7" (non-standard) 3U rack,  
315 x 195 x 140 mm  
2 slots maximum

## ● Temperature range

- 20°C to 60°C

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