

# RAKTEL 8010

## Universal Traffic Event Logger

*Counter, Classifier, Weigh In Motion*

- Reliable permanent traffic monitoring
  - Multi sensor input
    - Loop only
    - Loop plus axle and/or WIM 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
  - Interfaces for all popular HSWIM sensors
    - Bending plate
    - Piezo
    - Piezo quartz
- RAKTEL 8010 is a major upgrade from
- the RAKTEL 8000
    - Increased loop sensitivity
    - Improved piezo axle detection
    - Enhanced classification
    - New power management
- Modular design, card frame allowing flexible configuration
  - 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
  - Video frame grab control
  - Range of most popular classification algorithms
  - Provision for all popular data formats
  - User modifiable parameter sets
  - Complete software support
  - Supports serial, TCP/IP, GSM & GPRS communications
  - Low power consumption
  - Solar charging
  - Hot swappable batteries
  - Offscale sensing
  - Overheight detection



**Mikros Systems**



*Your Partner in Traffic Engineering*

# RAKTEL 8010 Summary Specifications

- **Sensor input**
  - 8 Channel self tuning digital loop detector. Up to two detectors (16 loops) can be accommodated
  - 8 Channel axle interface (for piezo or fibre optic sensors)
  - 4 Channel HSWIM interface (for bending plate, piezo or piezo quarts sensors).  
Up to four interfaces (16 WIM sensors) can be accommodated.
- **Sensor configurations**
  - A number of sensor configurations are available:  
Single loop only, dual loop only, dual loop plus axle or WIM sensor, single loop plus dual axle or WIM sensor and dual axle or WIM sensors only. Axle sensors can be used together with WIM sensors.
- **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, mass bins (up to 20)
  - VBV information: (metric or imperial)
    - Lane of travel
    - Arrival time
    - Speed
    - Length
    - Chassis profile
    - Axle spacing
    - Axle mass
    - Gross vehicle mass
    - Class code  
(FHWA, RSA, UERO, AUSTRROAD & other).
- **Video frame grabbing control**
  - With the appropriate digital video equipment and the TelWinPlus program. Pictures of selected vehicles (per lane, type of violation) can be stored.
- **Violation flagging & control**
  - For violating vehicle a violation output signal (TTL) is provided. The violation is flagged in the recorded data.
- **Communication modes**
  - Direct RS232 , local and remote via modem
  - Ethernet LAN/WAN (TCP/IP)
  - 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**
  - 7.8 kg : 19" 3U rack, 490 x 320 x 140 mm  
10 slots maximum
- **Temperature range**
  - -20°C to 60°C

**Mikros Systems**

*Your Partner in Traffic Engineering*



Mikros Systems (Pty) Ltd  
PO Box 75034  
Lynnwood Ridge, 0040  
South Africa

Tel : +27 (0)86 111-5393  
Fax : +27 (0)12 804-4706  
Mail : mikros@mikros.co.za  
Web : www.mikros.co.za

**syntell**

A Syntell group company