RAKTEL 4010

- 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 4010 is a major upgrade from the RAKTEL 4000
  - 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

Mikros Systems

Your Partner in Traffic Engineering

RAKTEL 4010 Summary Specifications

● Sensor inputs
- 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)

● 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.

● 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).

● Video frame grabbing control
- With the appropriate digital video equipment and the TelWinPlus program. Pictures of selected vehicles (per lane, type or violation) can be stored.

● Violation flagging & control
- For a 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 swapable battery system
- Controlled power to external devices

● Weight & dimensions
- 7.5 kg : 12.4" (non-standard) 3U rack, 315 x 320 x 140 mm 6 slots maximum

● Temperature range
- 20°C to 60°C