RAKTEL 4010

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 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

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

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