



RAKTEL 1020

Universal Traffic Event Logger



A logger for all popular WIM and Axle sensors

The Mikros **RAKTEL 1020** a smaller version of the full 19" RAKTEL 8020 Universal Traffic Event Logger, is an accurate and reliable traffic data logger. The **RAKTEL 1020** can be used with Loop and Axle sensors. The **RAKTEL 1020** is certified to the strict TMH3 type B1 C1 specification, ensuring highly reliable traffic data collection.

Description

The Mikros Systems RAKTEL 1020 is a Universal Traffic Data Logger and WIM controller that is equipped with:

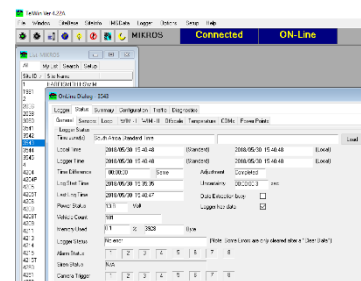
- High performance crosstalk-free digital loop detectors with inductive profiling.
- Digitally configurable axle sensor interfaces.

Major features

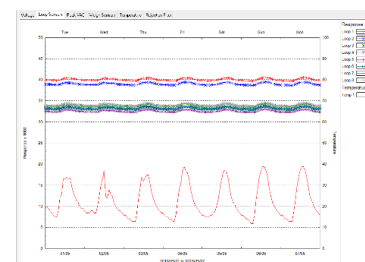
- Upgrade from the RAKTEL 1010 with faster processor, on-board flash data storage.
- Downloadable firmware and system updates.
- High speed data extraction.
- Flexible sensor configuration.
- Comprehensive sensor status and long term performance diagnostics.
- Quick setup mode.
- Built-in coincidence detection.
- Tidal flow indication.
- 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.
- Power management for external devices.
- 48 input channels for mix of WIM and axle detectors.

Setup and communications software

The RAKTEL 1020 is supported by the Mikros Systems **TelWin** program allowing for comprehensive on site and remote monitoring.



Detailed instrument, sensor and site performance parameters are monitored and plotted over time.

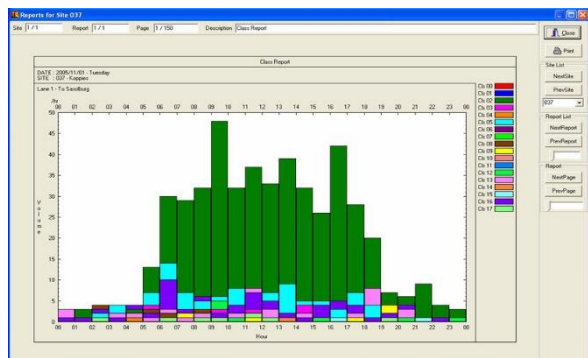


Data management

Data retrieval is automated by the **TelDailer** program that can simultaneously manage up to 50 incoming channels. For outstations fitted with GPRS a GPRS Server is available.

All raw data is stored in an encoded secure binary format. The Traffic Data Base is automatically populated and comprehensively validated on a macro and micro level to ensure quality data.

The Mikros Systems **TrafBase** data management program has a wide range of reporting and plotting modules, with exports to standard data formats including CSV all relevant FHWA card formats.



Real time and statistical data

The RALTEL1020 records and transmits data independently. Basic vehicle information depending on sensor configuration and requirement can be selectively exported in real time.

Optional accessories

- Cellular modem (GPRS/3G/4G/5G)
- Bluetooth serial adapter
- Stick-on loop and axle sensors

Technical Data

Dimensions:	4, 1 kg 220 x 320 x 140 mm
Interface slots:	6
Voltage supply:	12 v (nominal)
Power supply:	110-230V AC with solar charge 0, 6 – 6 Watt *
Power management:	Low battery protection Managed power to external devices. Hot swappable battery control
Communication:	RS232; Ethernet LAN/WAN GPRS: 3G/4G/5G
Data storage:	32 Mb flash
Operation temp:	-20°C - 60°C
Units:	Metric or Imperial (selectable)
Sensor inputs:	<32 inductive loops * <32 axle/wheel detectors *

* Model and configuration dependant

Available sensor configurations

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



Mikros Systems

Your Partner in Traffic Engineering for more than 40 years

Mikros Systems (Pty) Ltd
PO Box 30298
Tukai, 7966
South Africa

Email: mikros@mikros.co.za
Web: www.mikros.co.za



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mikros.co.za