# Event logger

The Click 514 monitors individual vehicle data pushed from SmartSensor HD and forwards it as tabular ASCII data to serial data logger devices. Gigabytes of data can be organized in daily or hourly files for examination using popular data analysis tools.

- Receives event data from Smart-Sensor HD
- Provides for data storage in hourly, daily or continuous duration files
- Uses Click Supervisor for simple user configuration
- Data logs import easily into Excel and other popular data analysis tools
- Compatible with compact flash-based serial data logger device as well as standard computers using software serial data logger
- Can be purchased as part of pre-built SmartSensor Traffic Event Logger System

- Built on user-customizable Click 500 platform
- Synchronizes device clocks and presents data in local time zone
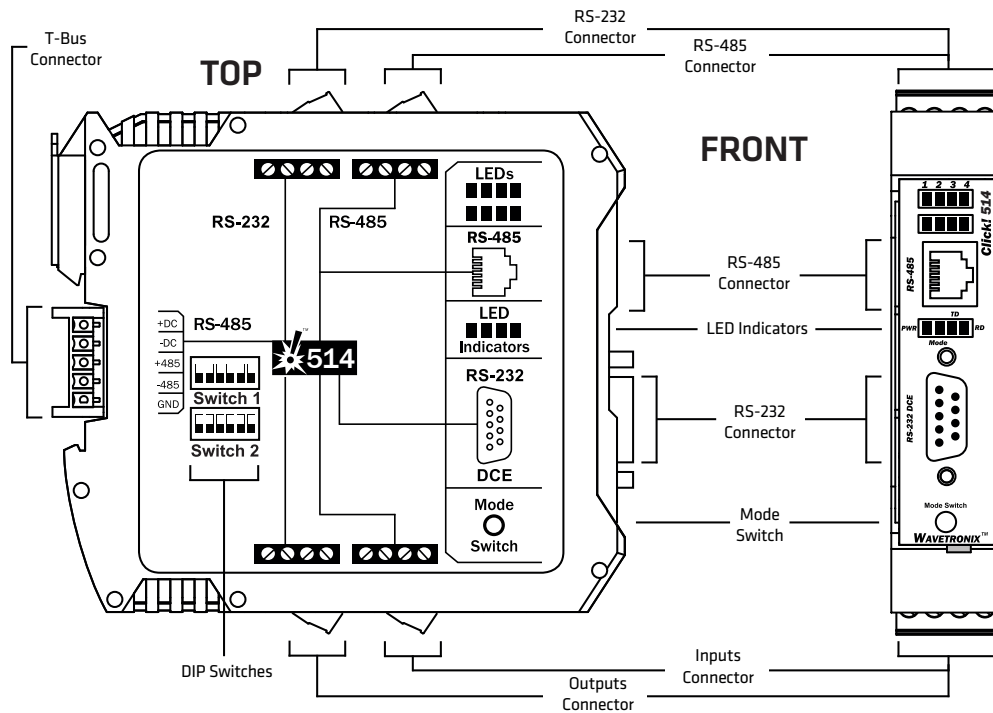
Technical specifications

Physical

- Weight: 0.29 lbs (0.1 kg)
- Physical dimensions: 4.5 in. × 4 in. × 0.9 in. (11.4 cm x 10.2 cm x 2.3 cm)
- Ambient operating temp: -29°F to 165°F (-34°C to 74°C)
- Humidity: up to 95% RH

Mounting

- DIN rail–mountable
- Hot-swappable

Power

- Power supply voltage: 9–28 VDC
- Power consumption: 0.8 W

Connections

- Power:
    - 5-position connector from the T-bus
    - Voltage input monitoring with settable thresholds of 11.7 or 22.7 VDC
- Four independent physical serial ports
    - RS-232 front: DB-9 female DCE connector with DIP switch override to select between programming and run mode
    - RS-485 back: 5-position connector for connecting from T-bus
    - RS-232 top: Pluggable screw terminal
    - RS-485 top: Pluggable screw terminal and an RJ-11 jack
- Two multi-function digital input ports
    - Low-level AC input monitoring via clamp-on split-core current transformers with 1 W 120 VAC load threshold suitable for monitoring incandescent or LED signal indication status
    - Contact closure input monitoring circuit that also serves to monitor low-level DC logic with threshold at 2.5 V
    - DC voltage input monitoring with selectable thresholds of 9, 11.7, and 23.4 VDC
    - Maximum input event frequency of 250 Hz
- Two solid state contact closure output ports
    - 250 Hz output signaling capability

Communication

- Converts RS-485 to RS-232

Baud rate

- Operates at baud rate of 9600 bps

Configuration features

- Push-button on faceplate does the following:
    - Sets device to Setup mode
    - Sets device to Programming mode
    - Sets devices to Logging mode
    - Resets the device factory defaults
- Multicolored LEDs have activity indicating function:
    - Red LED illuminates when device has power
    - Green LED (TD) illuminates when data is transmitted
    - Yellow LED (RD) illuminates when data is received
- Multicolored LEDs also act as operation mode indicators
- Two banks of LEDs (yellow and red) display submenu selections and application information
- Supported by user-friendly GUI (graphical user interface) for control of program parameters
- DIP switches for selection of run mode versus programming mode, multi-function inputs and supply voltage monitor thresholds

Testing features

- Push-button can be used to generate output signals to test system configuration

Pocket PC & PC configuration software

- Comes with Click Supervisor, configuration software with the following features:
    - Runs on Pocket PC or Windows desktop or laptop PC (Windows 2000 and newer)
    - Can save/open a configuration to/from a file, allowing a common configuration to be easily programmed into many devices
    - Has customizable driver(s) that are stored in an XML file that describes the settings for a devices as well as graphical user interface for that driver in the configuration software

Upgrade utility software

- Upgradable and programmable without case removal

Ordering information

Click 514
CLK-514

Accessories

Acumen DataBridge SDR2-CF

Contact us

801.734.7200
sales@wavetronix.com
www.wavetronix.com

Testing

■ Passes manufacturer's test before shipping

■ Tested under IEC 60950-1

Extended support

■ Extended support options are available from Wavetronix; contact a Wavetronix representative for more information

Warranty

■ One-year warranty against material and workmanship defect (see Click Warranty datasheet for complete details)

Bid specifications

1.0 General. This item shall govern the purchase and installation of an event logger module (ELM) equivalent to the Wavetronix Click 514. Test results and other documentation demonstrating performance and capabilities shall be provided.

2.0 Product description. The ELM shall be a traffic event logger module for use with serial devices, such as the Wavetronix SmartSensor.

3.0 Physical. The ELM shall not exceed 0.29 lbs. (0.1 kg) in weight.

The ELM shall not exceed 4.5 in. × 4 in. × 0.9 in. (11.4 cm x 10.2 cm x 2.3 cm) in its physical dimensions.

The ELM shall operate in the temperature range of -29°F to 165°F (-34°C to 74°C).

4.0 Mounting. The ELM shall mount to a DIN rail with hot-swappable power and communication buses for quick installation and replacement.

5.0 Power. The ELM shall operate using less than 0.8 W of average power at 9 to 28 VDC.

6.0 Connections. The ELM shall include the following connections for power and communication:

6.1 Power. The ELM shall include a 5-position connector, with two contact points reserved for connecting power through the bus.

The ELM shall supply voltage input monitoring with settable thresholds of 11.7 or 22.7 VDC.

6.2 Serial ports. The ELM shall include the following four independent physical serial ports:
- RS-232 front: DB-9 female DCE connector with DIP switch override to select between programming and run mode
- RS-485 back: 5-position connector for connecting from T-bus
- RS-232 top: Pluggable screw terminal
- RS-485 top: Pluggable screw terminal and an RJ-11 jack

6.3 Digital input ports. The ELM shall include two multi-function digital input ports with the following features:
- Low-level AC input monitoring via clamp-on split-core current transformers with 1 W 120 VAC load threshold suitable for monitoring incandescent or LED signal indication status
- Contact closure input monitoring circuit that also serves to monitor low-level DC logic with a threshold of 2.5 V
- DC voltage input monitoring with selectable thresholds of 9, 11.7, and 23.4 VDC
- Maximum input event frequency of 250 Hz

6.4 Contact closure output ports. The ELM shall feature two solid state contact closure output ports with 250 Hz of output signaling capability.

7.0 Communication. The ELM shall have the following communication capabilities:

7.1 Serial protocol conversion. The ELM shall convert 3-wire half-duplex RS-485 communication to half-duplex RS-232 communication.

8.0 Baud rate. The ELM shall operate at a baud rate of 9600 bps.

9.0 Configuration features. The ELM shall have a push-button on the face-plate that:
- Sets device to Setup mode
- Sets device to Programming mode
- Sets device to Logging mode
- Resets to device factory defaults

The front of the ELM shall include a red power LED, as well as green and yellow TX and RX LEDs that shall illuminate when corresponding data is successfully transmitted or received.

These LEDs, as well as the blue LED next to them, shall also act as operation mode indicators for operation modes selected with the push-button.

The ELM shall include two banks of user-programmable LEDs, one yellow and one red, to display submenu selections and application information.

The ELM shall be supported by a user-friendly graphical user interface that will control the program parameters.

The ELM shall have DIP switches that will be used to select run mode versus programming mode, multi-function inputs and supply voltage monitor thresholds.

10.0 Testing features. The ELM shall feature a self-test for system configuration. This test shall be accessed by using the push-button on the faceplate.

11.0 Pocket PC & PC configuration software. The ELM shall be provided with configuration software that:
- Runs on Pocket PC or Windows desktop or laptop PC (Windows 2000 and newer)
- Can save/open a configuration to/from a file, allowing a common configuration to be easily programmed into many devices
- Has customizable driver(s) that are stored in an XML file that describes the settings for a devices as well as graphical user interface for that driver in the configuration software

12.0 Upgrade utility software. The ELM shall be upgraded using software that:
- Runs on a Windows desktop or laptop PC (Windows 2000 and newer)
- Can upgrade the ELM firmware to add new features to the ELM

13.0 Testing. Before shipping, each ELM shall have passed a manufacturer's test.

Each ELM shall comply with all CE requirements under IEC 60950-1.

14.0 Extended support. Extended support options shall be available. Contact the manufacturer's representative for more information.

15.0 Warranty. The ELM shall be warranted to be free from material and workmanship defects for a period of one year from date of shipment.