

Advanced Fleet Management Telematics

The MHub855 is an advanced vehicle activity monitoring and tracking device designed to address the dynamic challenges of commercial fleet operators. MHub855 has been deployed in fleets around the globe across a variety of industries including logistics, utilities, insurance, telecoms, public transport and emergency services.



What Data is Collected?

The MHub855 collects a variety of data including real time fuel consumption, driver behavior (e.g. speeding, harsh braking, high speed curves), remote vehicle fault diagnostics, accident information, fuel levels and usage, water temperature, oil pressure, axle load, engine hours, TCO data and more. MHub855 seamlessly integrates with back office platforms (e.g. Routing & Scheduling, WMS, ERP) and POD systems.

Benefits

- Improve operating efficiencies, distribution management and vehicle maintenance
- Enhance security and safety assets
- Increase revenues
- Data synchronization
- Cost control
- Efficient asset recovery
- Reduce equipment inventories
- Support corporate decision making



Features

- **AVL** - Advanced Vehicle Location services provide comprehensive trip, location and vehicle status information including input and output statuses
- **Accident Detection and Reconstruction** - Accurate accident reconstruction with patented algorithms, accident notification and comprehensive reconstruction modules estimate vehicle impact zone and angle of impact
- **BLE: Bluetooth 4.0 LE** - Monitor and report various BLE sensors including driver ID, door sensors and driver biofeedback (e.g. heart rate)
- **C02 Emissions Reporting** - Calculation-based emissions reporting using vehicle type and factory specifications
- **Custom Beeper Flags** - Alert drivers of various vehicle statuses (e.g. seatbelt not fastened while driving)
- **Driver Behavior** - Monitor a wide range of risky driver behavior including harsh braking, lane swerving, aggressive lane changing and more using Scope's patented pattern recognition
- **Driver Management** - Comprehensive activity management including trip monitoring and user defined time/day and geolocation vehicle utilization restrictions
- **Engine Hours monitoring** - Odometer substitute in earth-moving equipment and generators
- **Fuel Consumption** - Monitor and report fuel usage using a wide range of sources including flow meter, analogue tank level monitoring and in vehicle network, and flag potential fuel theft
- **Fuel Tanker Monitoring** - Integration with Veeder-Root fuel tank gauge systems
- **Garmin Fleet Compatible** - Garmin fleet integration with messaging to MZone web application
- **Geofences** - User-defined geolocation vehicle activity monitoring
- **Health Metrics Reporting** - Daily reports of unit performance and diagnostic status
- **In-Vehicle Network** - Provision of in-vehicle network data including fault codes, fuel consumption and odometer (data sources may vary between various makes and models)
- **Intelligent Power Management** - User-defined power optimization Pattern Recognition Engine - Patented auto-calibration of 3-axis digital accelerometer for driver behavior and accident detection, capable of 400Hz data for accident reconstruction
- **Temperature Sensors** - Up to four digital temperature sensors reading from -30°C to +140°C
- **Trigger Engine** - Fully customizable user-defined operation sequence and action trigger system allows the automation of actions based on vehicle status and variables (e.g. "Set warning light when Speed above 20km/h and seatbelt not fastened).
- **Vehicle Battery Monitoring** - Monitor and report vehicle battery health statistics
- **Hands Free Kit(HFK)** - Control room functionality to enable remote monitoring and communication with the driver (via Hands Free Kit). The Hands Free Kit will allow the driver to listen and talk back to the caller.

Technical Specs – MHub855

GPS	
GPS Receiver	uBlox Amy-6M, Glonass Option Available
GPS Spec	50 Channel -160 dBm
GPS Antenna	External
GSM	
Cellular Platform	Telit GE910-Quad (3G Option Available)
GPRS Class	10
GSM Bands	GSM/ GPRS: 850/ 900/ 1800/ 1900 MHz
GSM	Antenna Internal
Iridium Transceiver - Optional	
Iridium Module	Transceiver Model 9602
Physical Characteristics	
Dimensions	120mm x 78mm x 26mm
Operating Temp.	-30C to +70C
Power	
Power Input	9 - 40V DC
Backup Battery (mAh)	1100mAh

Inputs & Outputs	
Inputs - Digital	5
Inputs - Frequency	2
Inputs - Temp. Sensors	4
Inputs - Driver ID Port	2
Inputs - Analog	1
Outputs	4
Connectivity	
USB	1 Host
Serial Ports (RS232)	2
In Vehicle Network	J1939/ J1708/ CAN / ISO15765
BLE	Optional
Other	
Accelerometer	3 Axis Digital (16g)
Geofence Storage Capacity	5000