



## Tanker tracking and tagging

Vari-Trac is a global provider of innovative solutions for road tanker tracking and tagging of equipment and assets.

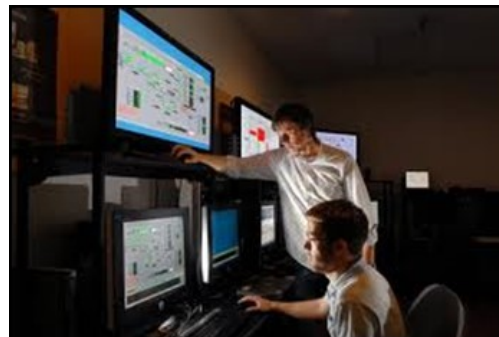
A global business needs the ability to remotely monitor its assets, their performance, repair state and their utilisation. Added to this they are demanding to know, fuel level, fuel consumed, running temperature, vibration status, hours idel, location to support KPI's.

## Sectors

- Vehicle tracking
- Fuel management
- Asset and cargo management
- Tanker location and status
- Service and Maintenance schedule
- Security and protection services

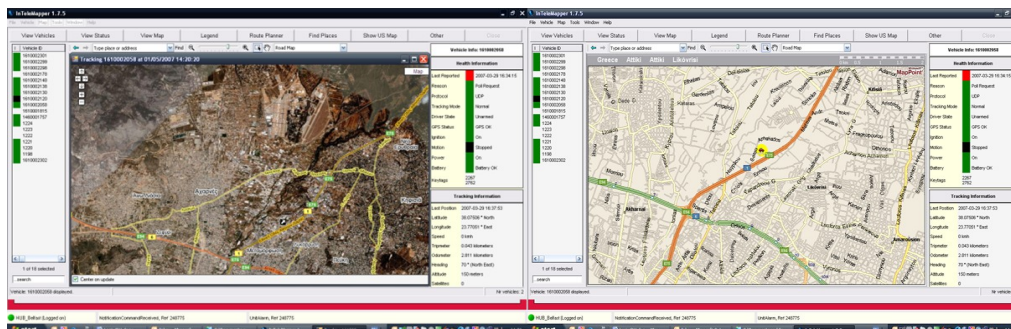
## Solution

Our fully integrated and flexible solution provides tamper prove GPS tracking and fuel and / or liquid cargo level monitoring. The additional features of temperature, vibration and motion detection provide value added technology. Advanced data transmission compression algorithms provides for various data options whether GPRS/3G, Satcom, WiFi or Bluetooth.



## Applications:

- Tanker Tracking
- Fuel Level monitoring
- Tank level monitoring
- Temperature monitoring
- Vibration monitoring
- Auxiliary sensor transmission
- Geofencing
- Running hours
- Theft protection
- Alarm status
- Remote control functionality
- Driver identification



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Ref: VT\_Tanker\_rev1



## Data sheet and performance

Environmental	Temperature:	Storage: -55°C to + 125°C Ambient Operating: -40°C to +85°C Ambient
GSM/GPRS	GSM/GPRS Bands: SIM form factor:	Quad Band Nano SIM (4FF, ETSI TS 102 221 V9.0.0, Mini-UICC)
GPS	Tracking capability: SBAS type: GPS accuracy: GLONASS accuracy: Velocity accuracy: Heading accuracy: Anti-jamming:	72 channels WAAS, EGNOS, MSAS, QZSS, GAGAN 2.5 m Autonomous, 2.0 m SBAS (CEP, 50%, -130 dBm, > 6 SVs) 4.0 m CEP, 50% 0.05 m/s 0.3 degrees Active CW detection and removal, on-board 2x SAW filter
Bluetooth LE v5.0	Type:	v5.0 BLE (compatible with 4.0 - 4.2)
SD Memory Card	Type: Max capacity:	Micro Secure Digital HC (microSDHC) 32 GB
Input / Output Interface	Digital I/O	4 x Digital Inputs 4 x Digital outputs
Encryption	AES	AES HW encryption
Accelerometer	Type: Sensitivity: G Range: Free fall detection	3-axis MEMS linear accelerometer 1 mg/LSB (12bit ADC) @2G range 2/4/8 G Yes
Heading sensor	Type: Sensitivity: Full Range:	3-axis MEMS magnetometer 0.10 µT/LSB ± 1000 µT
Temperature sensor	Type: Range: Accuracy: Max resolution:	Digital Thermometer -40°C to +125°C ± 0.1°C 0.01°C (14 bit)
Level sensor	Type: Max depth: Compensated: Accuracy:	Capacitive level sensor 5 m Temperature, air K, liquid K 0.10%
Power:	Power supply / battery:	5-14 VDC



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