



Maritime tracking and tagging

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

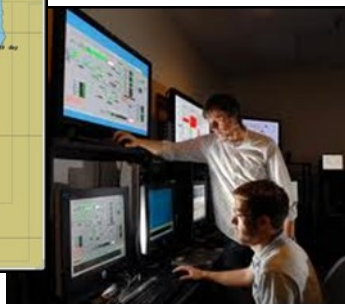
A global business needs the ability to remotely monitor its assets, their performance, repair state and their utilisation.

Operating in sectors for offshore vessel management, fleet management, port and harbour management, dredging, marine security, fisheries and controlling offshore exclusion zones.



Applications:

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



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 a multitude of data transmission options whether GPRS/3G, Satcom, WiFi or Bluetooth.

Bluetooth and WiFi allows for multiple assets on the same platform to be tagged together providing the user with an integrated solution.

The integration of multiple inputs for external sensors provides even greater flexibility.



<http://www.vari-trac.com>

Ref: VT_Mari_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 μ T/LSB \pm 1000 μ T
Temperature sensor	Type: Range: Accuracy: Max resolution:	Digital Thermometer -40°C to +125°C \pm 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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