Technical

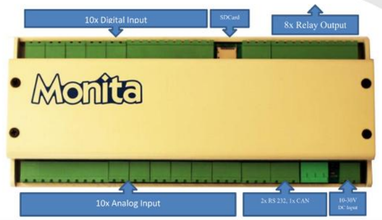
Specification

Monita Hybrid Module
- Size: 200 x 98 x 23 mm (L x W x H)
- Weight: 400 gr
- Power supply: 11 - 30 V_{DC}
- Power consumption: 100 mA at 12 V_{DC}
- 10 analog inputs (4-20 mA)
- 10 digital inputs (0-24 V_{DC})
- Cascadable
- 2GB SD-Card for up to 60 days of data

Enclosure/Panel
- ATEX (standard)
- IP66 (optional)
- Battery : 24 Volt, 12 Ah. Up to 48 hours of power backup
- Panic Button/SOS (optional)

Satellite Modem
- **Compatible with multi platform**
  - Inmarsat satellite (standard)
  - Iridium satellite (optional)
- **Compatible with multimode Modem** (Hybrid: GPRS/Satellite)

Sensors
- **Flow Meter**
  Compatible with :
  - PD flow meter
  - Coriolis/mass flow meter (optional)
- **RPM Sensor**
  - Proximity sensor
  - Installed separately from existing engine RPM monitoring
- **Auxiliary Running-hour sensor**
  - Detection via voltage/current output
  - Installation without interupting existing setting
- **Anemometer (optional)**
  - Data: Wind velocity and direction (relative to vessel)
  - Connection via modbus



Software

Specification

Web Based Software
- Globally accessible
- Reliable servers
- Linux based servers
- Security : MD5 encryption
- AES-128 transmission
- User access control (admin, operator)

Map Tracking Function
- Pan & zoom
- Auto refresh (1-30 minutes)
- Vessel location and tracking
- 24 hours track - log display
- Data stored up to 3 years

Vessel Management
- Vessel equipment properties setting/edit
- HMI display for vessel equipment layout (Visualization)

Equipment Customization
- Fuel monitoring, up to 10 points
- RPM monitoring, up to 10 points
- Auxiliary Engine Running-Hour, up to 3 points
- Analog input (fuel pressure, temperature, etc)
- Anemometer input for real time weather overview

Data Processing
- Hourly and daily display of fuel usage, RPM
- Graphic plot and trending
- Alert display
- ASTM/API gravity calculation (if temperature and pressure sensors installed)

Document Export
- Excel document
- PDF document
- XML-Web-API (application-to-application)
- Text file : ASCII or CSV
- Auto transmission report: email, FTP

Measure - Analyze - Improve

Product

Package

Sensor
- [x] RPM sensor
- [x] Flow meter
- [x] Level meter
- [ ] Others (optional)

Panel and Module
- [x] Monita Module
- [x] ATEX panel (standard)
- [ ] IP66 panel (optional)

Satellite Modem
- [x] Inmarsat Satellite + GPRS (standard)
- [ ] Inmarsat Satellite only (optional)
- [x] Data transmission periode: every 30 minutes

Web Application Service
- [x] Up to 5 users per customer account (with different level)

Benefits

- Give accurate information about location and actual vessel engine condition.
- Optimize travelling route and fuel consumption.
- Increase operational cost efficiency.
- Increase safety factor towards Zero Accident.
- History record as reference for continuous improvement.

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Maintenance Technology Specialist
Measure • Analyze • Improve

Monita Marine
Vessel Monitoring System

Measure Vessel Parameters and Movement

Analyze Vessel Activities and Performance

Improve Cost Efficiency and Safety

PRODUK INDONESIA
KELAS DUNIA

CERT NO.: 2016-1-0206
ISO 9001 : 2015

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Measure - Analyze - Improve
Measure - Analyze - Improve

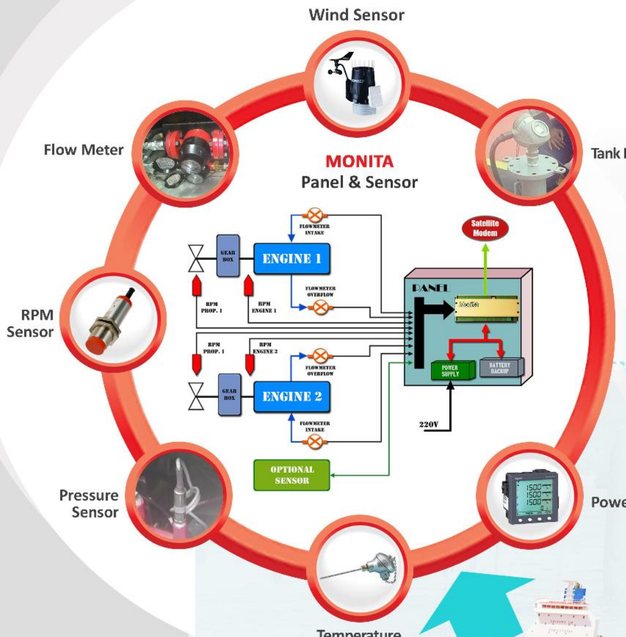
Introduction

A Vessel is an expensive asset that operates in remote area

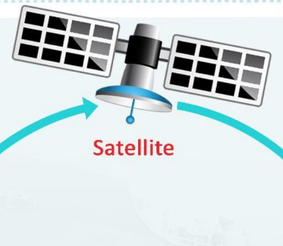
B Operational activities that are not well measured could cause high operational and maintenance cost, as well as increase safety risk

C To improve efficiency and safety, an accurate and reliable monitoring system is needed

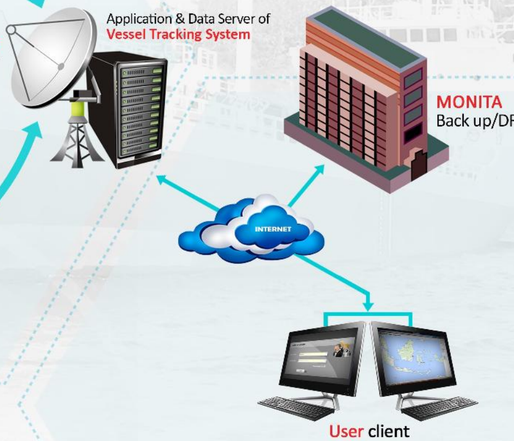
Monita Marine is an integrated vessel monitoring and management system on marine operation



1 Data Acquisition



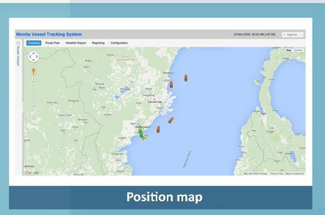
2 Data Transceiver



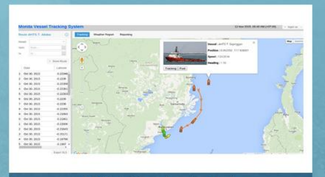
3 Application System

Tampilan WEB Interface

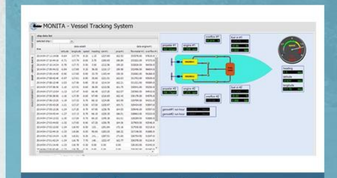
Login page



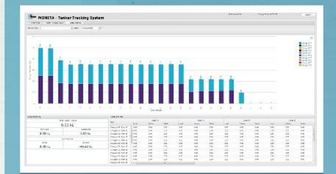
Position map



Multiple Vessel route display

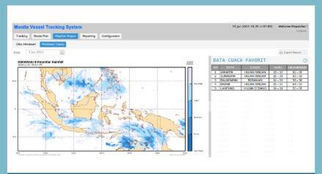


Engine parameters display

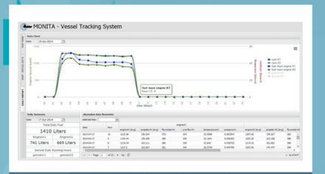


Tank Level Monitoring display

Laporan Informasi Kapal



Tampilan Data Cuaca (BMKG)



Engine & fuel monitoring chart

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