



ELECTROPNEUMATIC SA

www.electropneumatic.gr



Automation & Control Systems



Pneumatic & Hydraulic Systems



24/7 on site Service & Repairs



Electrical Systems




Calibration

ELECTROPNEUMATIC S.A. PROFILE

ELECTROPNEUMATIC S.A. was established in 1983 by Mr. Michaloutsos Nikolaos in Piraeus, Greece.

The company provides 24/7 service and troubleshooting on vessel control systems and has a sought presence in the Marine Industry and Oil & Gas with more than 50 people as permanent personnel.

Electropneumatic SA is certified according to ISO 9001:2008 by certification body ABS Quality Evaluations

- ✓ **Research and Development Dpt.**
 - ✓ **Technical Dpt.**
 - ✓ **Sales Dpt.**
 - ✓ **Administration Dpt.**
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24/7 ON SITE SERVICE & REPAIRS

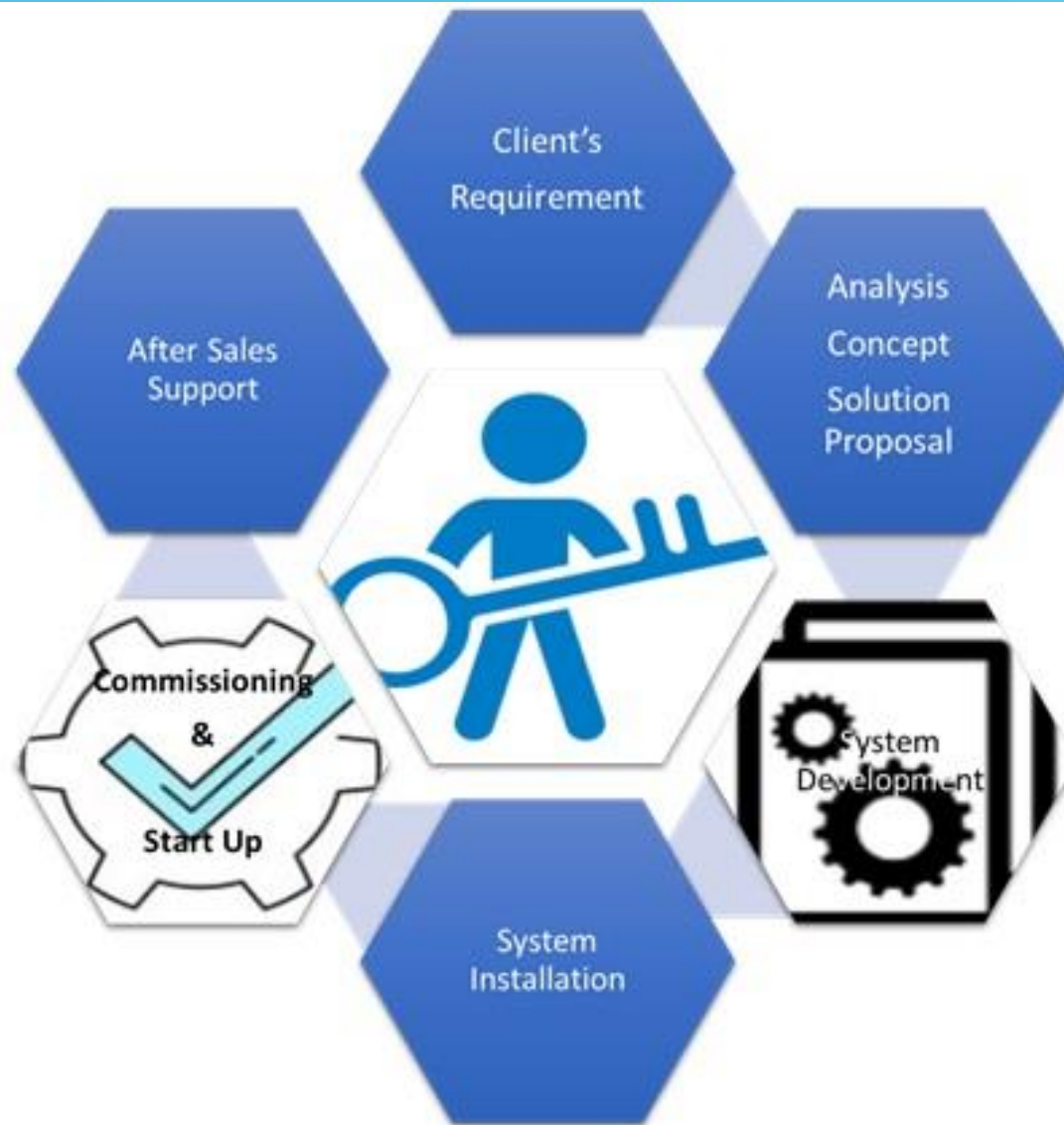
- Certified Engineers and Technicians
- Personnel expertise on specific fields – not all technicians for all tasks
- Service and Repairs on:
 - Hydraulic Systems
 - Pneumatic Systems
 - Electrical and Electronic Systems
 - Automation Systems PLC, SCADA, HMI
 - Fire Systems...and many other systems on a vessel!
- Service contracts friendly policy
- Retrofits or New Buildings
- Design of integrated systems as Turn Key Solution from scratches
- Class Approval available

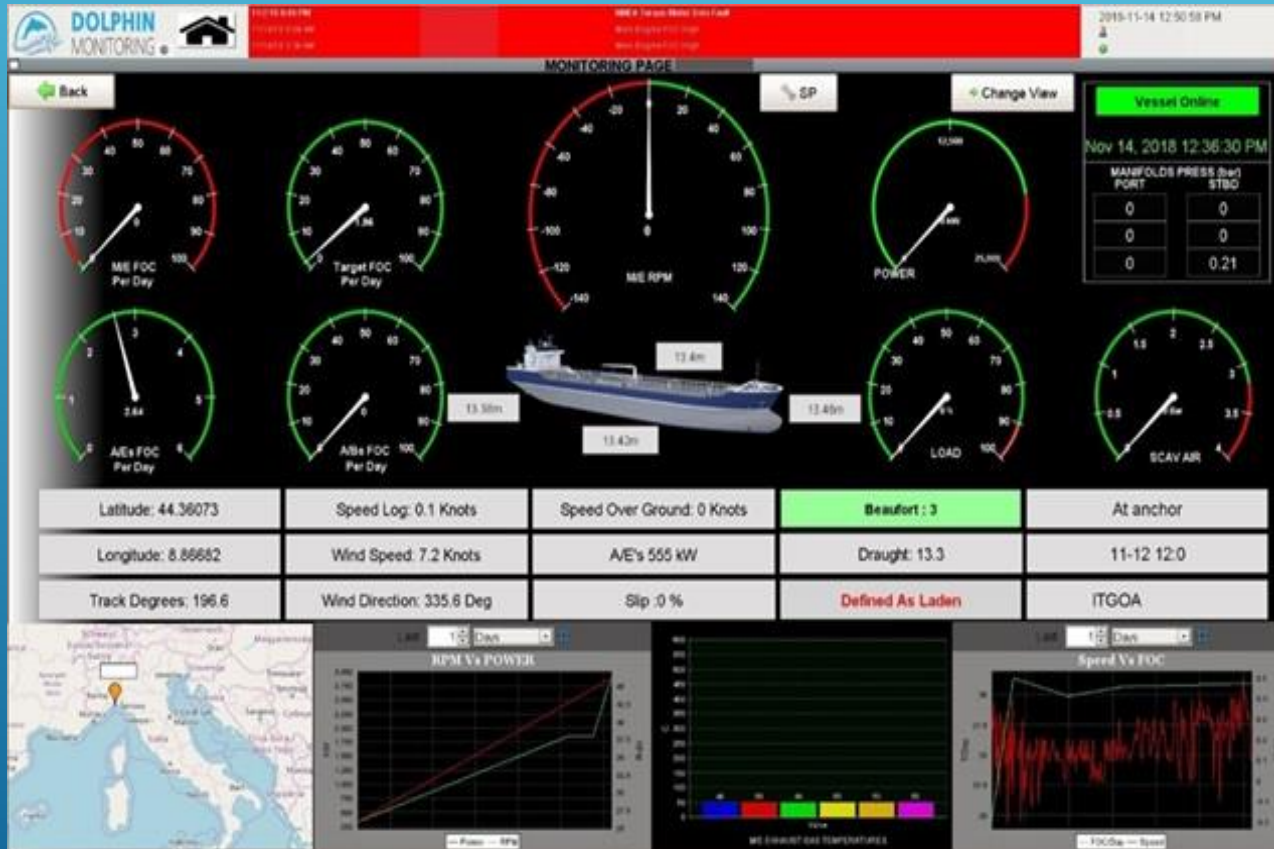
24/7 ON SITE SERVICE & REPAIRS

- Alarm monitoring systems.
- Power management systems.
- Maneuvering systems.
- Tank gauging systems.
- Process control systems.
- Machinery control.
- Fire detection systems.
- Gas detection systems.
- Remote valve control systems.
- Cargo control and monitoring systems.
- Emergency shut-down system.
- Stabilizer Systems.
- Fuel monitoring - bunkering systems.
- Steering control systems.
- Oily water separators.
- Air Condition Systems.
- Ventilation Systems.
- CCTV and camera systems.
- Navigation light systems.
- Wiper control systems.
- Scrubber systems.
- Lights and light fixtures.
- Water mist systems.
- Fire damper control systems.
- Underwater ROVs.



TURN KEY SOLUTIONS





24/7 Dolphin Assets

- Fleet Overview
- Hull performance monitoring
- Engine performance evaluation
- Fuel consumption records
- Sailing Status & weather conditions
- Alarm History – Event Log
- System's Trends – User's Trends – Reports
- Internal data storage upon communication failure
- ISO 27001:2005 Data Cyber Security
- 5 years data archive or more
- Access Control List of users

Key benefits

Regarding profitability we offer:

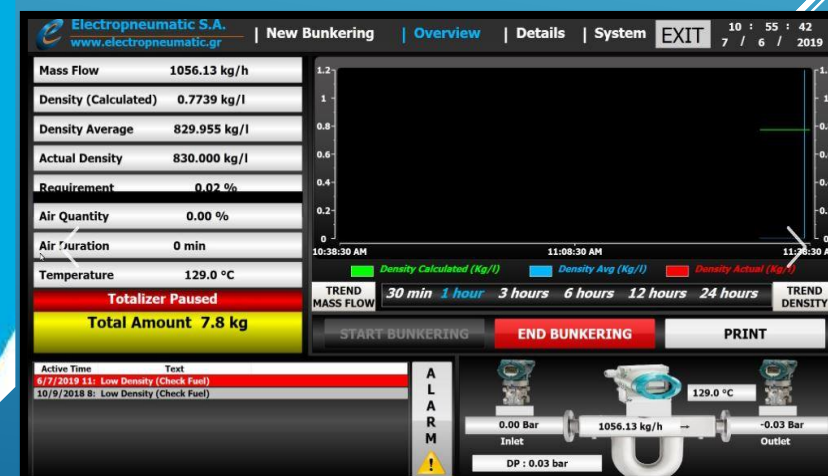
1. Accurate billing thanks to the high accuracy of our bunker fuel measuring system ($\pm 0,1\%$)
2. Save time up to 3 hours for each bunkering operation. No manual tank sounding is necessary.
3. Direct mass measurement - real time and sophisticated volume conversions.
4. Maintenance - free measuring system without moving parts.
5. Stable measurement - independent to external condition like fuel quality, vibrations, ambient temperature.



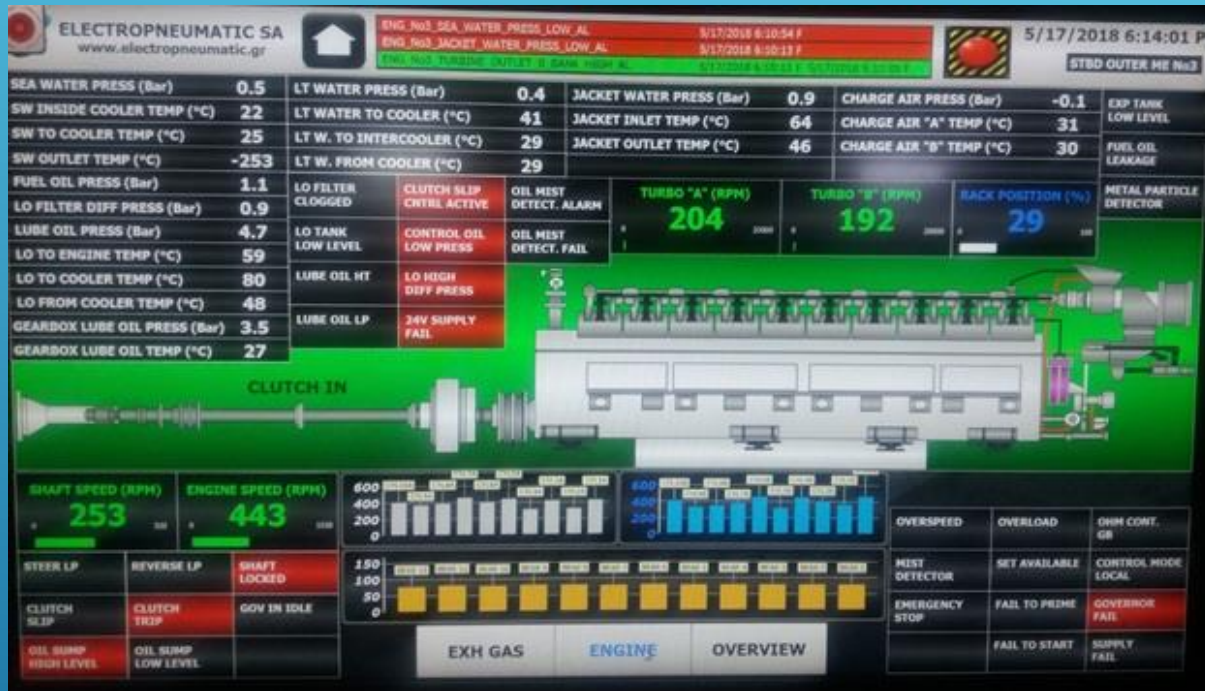
HIGH TRANSPARENCY

BUNKER FUEL METERING SYSTEM

Vessel	My Vessel	GPS Coordinates Latitude 0° 0.00000' Longitude 0° 0.00000'
IMO No.	55555	
Vessel Signature	Bunkering	
Port	Piraeus	
Tunker Number	0	
Operation Type	RECEIVE	
Fuel Type	MGO HFO IFO	
Fuel Quantity	50000.0 kg	
Density 15°C	0.8560 kg/l	
Temperature	45.0 °C	
Supply Pipe Length 5.0 m Diameter 2.0 inch		Proceed

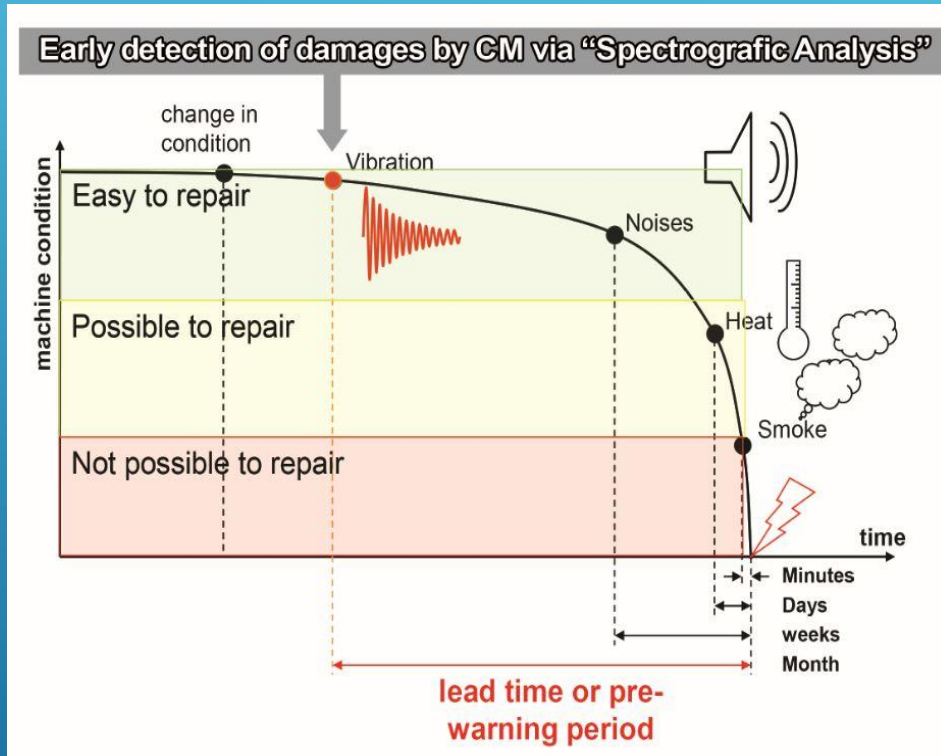


ALARM MONITORING SYSTEM



- Redundant sophisticated AMS
- Redundancy in its network - if one remote station is lost, all the other stations remain in operation
- Designed for easy fault finding – troubleshooting
- Multiple HMIs with advanced graphics
- Alarm history, ACL, printing, logs, trends, remote access and more

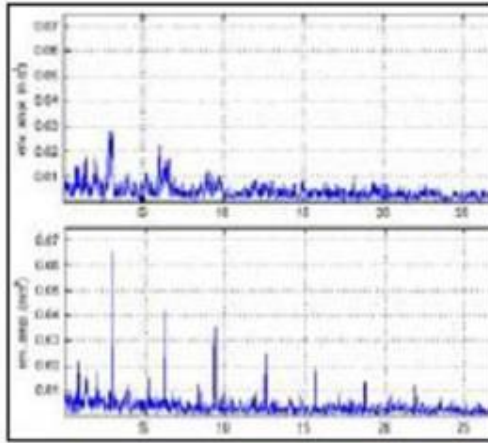
VIBRATION MONITORING SYSTEM



- Smart Condition Monitoring
- Spectrographic analysis and identification for:
 - Imbalance
 - Misalignment
 - Impacting
 - Transmission
- Accurate predictions
- Pre-Alarm and Alarm Status
- Applicable to Pumps – Motors – Gearboxes – Compressors – Ventilators - Fans

VIBRATION MONITORING SYSTEM

Delivers Online-Information about the Status and Conditions and stores data in the SmartCheck and the internal intelligence reduces the number of sensors.



OCCURRED	COMMENT	REST.
16/04/12 06:08	comment or imbalance.	-
16/04/12 06:07	for alignment or imbalance.	08:08
16/04/12 07:59		08:07
16/04/12 07:56	e. The vibration characteristics of	07:57
16/04/12 07:55	e. The vibration characteristics of	07:56
16/04/12 07:52	gnificantly.	07:53
16/04/12 07:50		07:51

Sensor 1



Spectrographic Analysis is suitable to identify:

- Imbalance
- Misalignment
- Impacting
- Transmission damage

..besides the detection of roller bearing defects

MANEUVERING

- Throttle Output / CPP Output Operation
- Variable Lever position to RPM and Pitch values
- Independent operation by display (HMI)
- Emergency Operation
- Alarm History
- Password protected Set Points
- Class Approved System



STEERING GEAR

- Follow Up & Non Follow Up modes of operation
- Rudder position supervision and feedback
- Independent operation by stations
- Low voltage & Low oil level supervision
- Emergency Operation
- Alarm History
- Class Approved System



Electropneumatic S.A. – Key Projects

Repairs and restoration from Fire or Flood

- Ro/Ro Highspeed I – Restore from fire
- Ro/Ro Nissos Mykonos
- Ro/Ro Nissos Chios
- M/V Bulk Trader

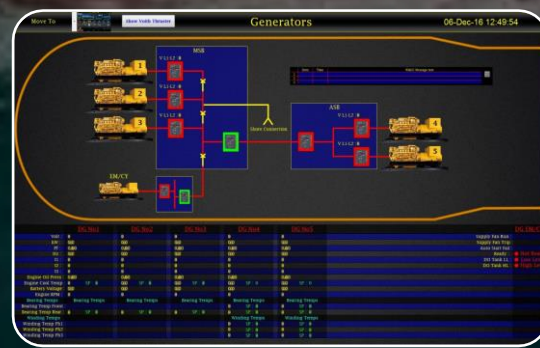
Electromechanical constructions and Controls

- Argo I – Dynamic Position
- Astrea – Dynamic Position II
- Atalanti – Dynamic Position & Turn Table
- Aethra – D/P & Turn Table II

Systems - Turn key Solutions

- Ro/Ro Highspeed – Alarm Monitoring and A/Es Controls
- Ro/Ro Pegasus – Maneuvering
- Ro/Ro Skiathos – Steering Gear
- TMS Fleet – Dolphin Vessel Performance
- F/B Andros – Bunker Metering System

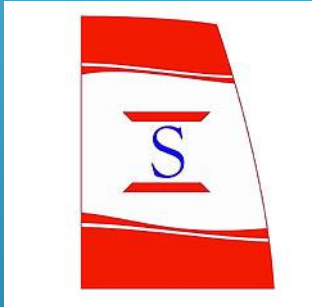
ATALANTI CABLE LAYING VESSEL MILESTONE PROJECT - PHOTOS



ATALANTI Cable Laying Vessel Milestone Project - Photos



Clients



Ευχαριστούμε!

Thank you!

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Questions ???



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