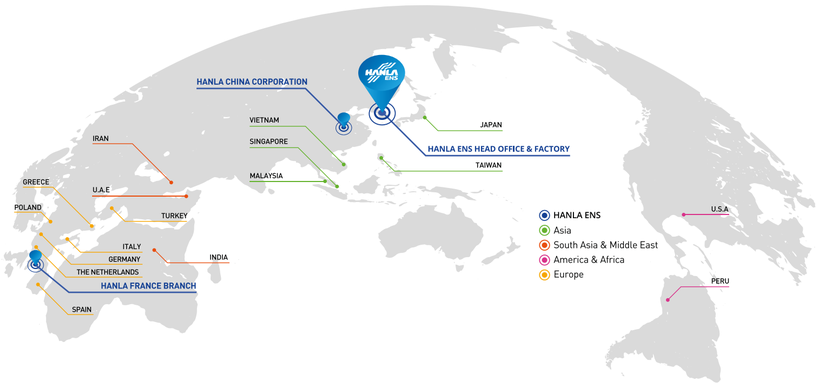
HANLA IMS

Hanla IMS is the best solution

Company View

Since 1989 HANLA IMS Manufacturing Line Authorized by the Quality

GLOBAL NETWORK SERVICE



HANLA IMS

ISO-9001 REGISTERED FIRM

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HANLA IMS
INSTRUMENT MONITORING SYSTEM

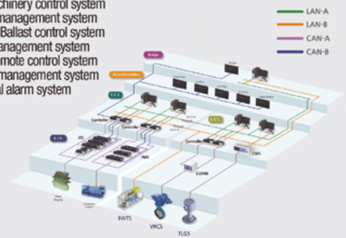
INTEGRATED ALARM MONITORING & CONTROL SYSTEM
BALLAST WATER TREATMENT SYSTEM
VALVE REMOTE CONTROL SYSTEM
TANK LEVEL GAUGING SYSTEM

HANLA IMS

INTEGRATED ALARM, MONITORING & CONTROL SYSTEM

Dynamic-A includes following sub-systems;

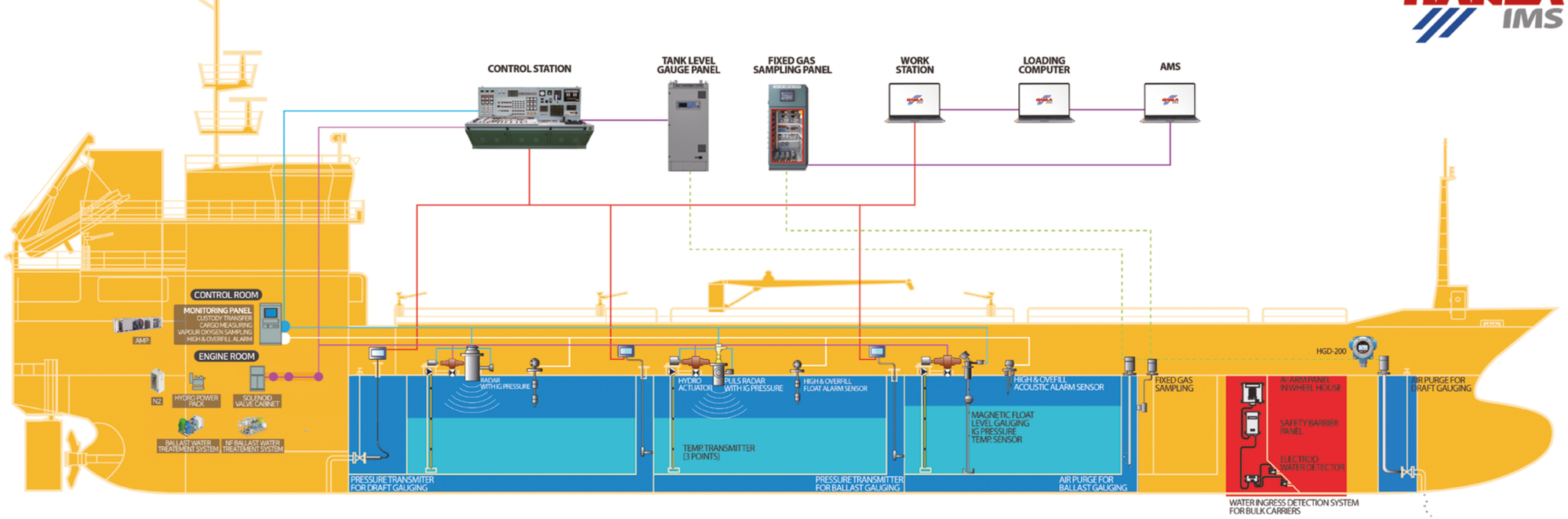
- Alarm and Monitoring system
- E/R machinery control system
- Power management system
- Cargo / Ballast control system
- Tank management system
- Valve remote control system
- Ballast management system
- Personal alarm system



VALVE REMOTE CONTROL SYSTEM(VRC)

Hanla HLT series hydraulic actuator is provided with the hydraulic locking device with position adjusting device at the full open and full closing position of the valve.HLT series hydraulic actuator's standard working pressure is 135 bar and available from 60 bar to 135 bar according to customer request.

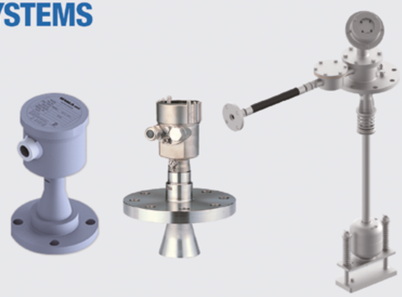
And can provide standard HLT series hydraulic actuators to apply for general marine butterfly, globe, gate, and SDNR globe valve.
And low temperature for butterfly, gate and glove valve for LNG / LPG carrier.
Also can provide the actuator for special application such as avoid any sticking problem at full shut position of the gate valve by providing automarically operated booster on the actuator.



CARGO TANK MEASURING SYSTEMS

Hanla cargo measuring systems are thoroughly desinged according to Classes and International Rules latest requirements, and the systems are designed for all kinds of liquid cargo carriers except for gas ships.

- Radar beam type cargo measuring system
  - FMCW radar type
- Magnetic float type cargo measuring system
  - TLP-100 Magnetic float type with IG Pressure, Temperature Sensor
- Independent high&overfill alarm system
  - Magnetic float type
  - Acoustic wave type
- Fixed gas sampling/detection system
- Vapour emission control system(VECS)
- Vapour pressure monitoring system
- Oxygen analyzer
- Loading computer(Load Master)



TANK REMOTE SOUNDING SYSTEMS

Hanla tank remote sounding systems are for continuously measuring the liquid level of ballast tank, draft and engine room tank,and Hanla can provide various solutions in accordance with all ships.

In case of Air purge type, liquid level of measuring depth pressure is indicated for direct reading, and then the high precision is achieved.

And also, Electric pressure transmitter is manufactured in several ranges and types, and it provides high measuring accuracy and stability.

- Air purge type
  - EPN Series Electro pneumatic type
  - OPN Series Pure pneumatic type
  - MPN Series Microprocessor controlled type
- Electric pressure type
  - PL40 Series Electric pressure transmitter

EcoGuardian™ NF BALLAST WATER TREATMENT SYSTEM

Treatment Method
- Ballasting: Electrolysis (Side-stream)
- De-ballasting: Neutralization (Sodium thiosulfate)

The operation of Hanla EcoGuardian™ can be divided into three pase : Ballasting, During during voyage and De-ballasting

- During ballasting operation, Sodium hypochlorite is applied as a disinfectant which is generated at the electrolysis unit using the side-stream of seawater.
- During voyge, ballast water will be disinfected by the residual effect in the tank.
- De-ballasting phase, neutralization agent is injected to main ballast line and mixed to neutralize residual disinfectants before discharging to the sea.