



# DYNAMIC POSITIONING SYSTEM

## Your tool for advanced operations with low fuel consumption

EasyDP® is a cost efficient solution of Dynamic Positioning systems up to DP3, available for all kind of vessels for standard and special operations.

EasyDP® range offers robust and reliable systems ready for seamless integration on board (JBS, VMS, PMS, navigation...).

EasyDP® provides a smooth and safe operator experience.

EasyDP® offers a complete range of products and services including advanced features for ice control mode and fuel cost saving.

EasyDP® results from more than 20 years of SIREHNA® expertise in hydrodynamics and control of marine systems.

EasyDP® implementation and support are performed by a motivated customer-oriented team, actively listening to your needs and constraints.

### CUTTING EDGE TECHNOLOGY FOR OFFSHORE AND OIL & GAS OPERATIONS:

MPSV - OSV - FSIV - PSV  
AHTS - FPSO - FSRU

MAINTENANCE VESSEL  
SURVEY VESSEL  
RESEARCH VESSEL  
ICEBREAKERS

### AND ALSO FOR:

WARSHIP  
MINE HUNTER  
MEGA YACHTS  
CRUISE LINER



## KEY POINTS



### EasyDP® added value

■ SIREHNA® EasyDP® offers tailor-made solutions for every ship project and every operation, from ROV follow operations to virtual anchoring of superyachts, ■ customer recognised fuel efficiency and high accuracy,

■ IMO Class approval, IEC 60945 standards, ■ smooth and safe operator experience, ■ hardware integration, commissioning, sea trials, ■ world wide after-sales services, ■ training, simulators.

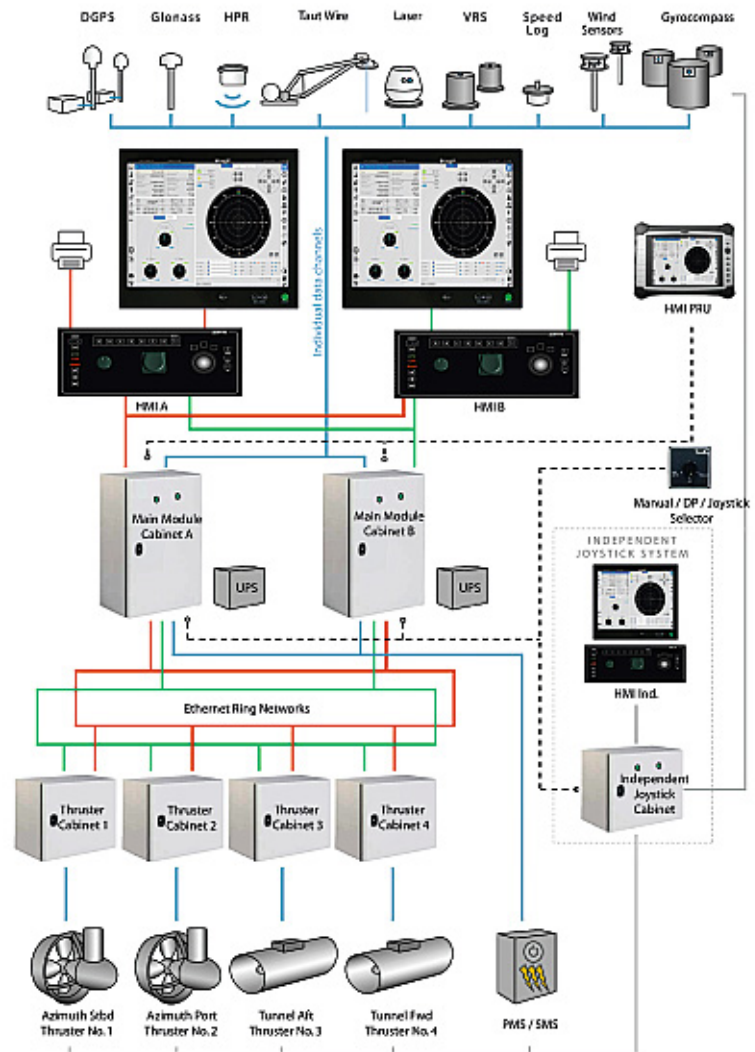
### Easy to integrate

■ for new vessels or refits, ■ Compact solutions for console, wheelhouse, wingstation, or Integrated Bridge System (IBS), ■ with high flexibility of interfaces, ■ including complete library for VMS and navigation integration.

### High standard hardware configuration

EasyDP® system is based on:

■ high availability COTS, ■ top level maritized embedded computers and I/O modules, ■ reduced numbers of onboard and depot spares with shared technology hardware, ■ touch-screen operator interfaces, ■ panel with 3 axis joystick, ■ dual redundant ethernet ring networks, ■ fixed and portable operator consoles.



Example of EasyDP architecture



EasyDP integrated in Station

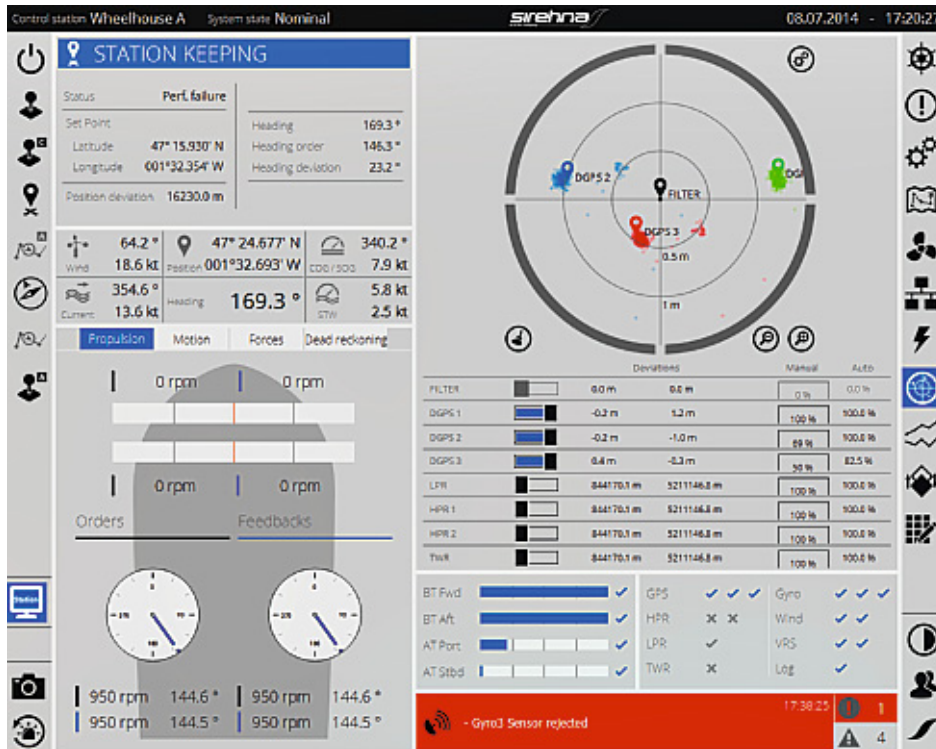
### EasyDP® product line

■ joystick control system, ■ DP Yacht – Cruise, ■ DP0 up to DP3 – Offshore, ■ DP – Military.

## KEY POINTS

### Full range of control modes

- joystick manual heading,
- joystick auto heading,
- joystick combined manual auto,
- station keeping,
- autopilot – heading keeping (TCS category C),
- track keeping low and high speed,
- follow surface and subsea target,
- auto area,
- anchor mode,
- online training,
- circle keeping (mine hunter).



### Full range of functionalities

- sensor and position reference system data processing,
- thruster allocation and control,
- customised man-machine interface,
- alarm system,
- power load monitoring and blackout prevention,
- economic heading,
- fast learn,
- online DP capability analysis,
- online consequence analysis.



Example of DP MMI interface

### Innovation and R&D in control advanced theory and hydrodynamics

- advanced Kalman filtering for forces estimation,
- non-linear and online optimisation of thrusters forces,
- innovative control theory for DP in ice,
- HIL : Hardware In the Loop validation,
- noise reducing mode,
- fuel cost saving,
- ice control theories.





# DYNAmic POSITIONING SYSTEM



## ➔ Full support for customer satisfaction

- flexible, reliable and cost-efficient DP solution,
- high quality, global and local support,
- remote access and monitoring capabilities,
- built in diagnostic and hot-line support,
- logistic support and spare parts delivery,
- crew training on board, in ship-owners offices and at SIREHNA®.



### SIREHNA

1 rue de la Noë – BP 42105  
F-44321 NANTES Cedex 3  
tel: + 33 (0) 2 51 86 02 86  
[www.sirehna.com](http://www.sirehna.com) / [sales@sirehna.com](mailto:sales@sirehna.com)