

Icon DP 1 - dynamic positioning system

A positioning product from Rolls-Royce

System topology

DP network (Ethernet) provides the link between the control cabinet and the Icon operator stations.

Control cabinet

The class 1 system consists of one control cabinet. Rolls-Royce marine controllers execute the DP application and handle interfaces to propellers/thruster, sensors, reference systems, power system etc.

Operator stations

The operator stations have a display with a touch-screen interface, a positioning device and a joystick device. An additional touch-screen is available as an option for Rolls-Royce operator's chair. Operation mode switch (DP switch) is supplied with the Icon DP system.

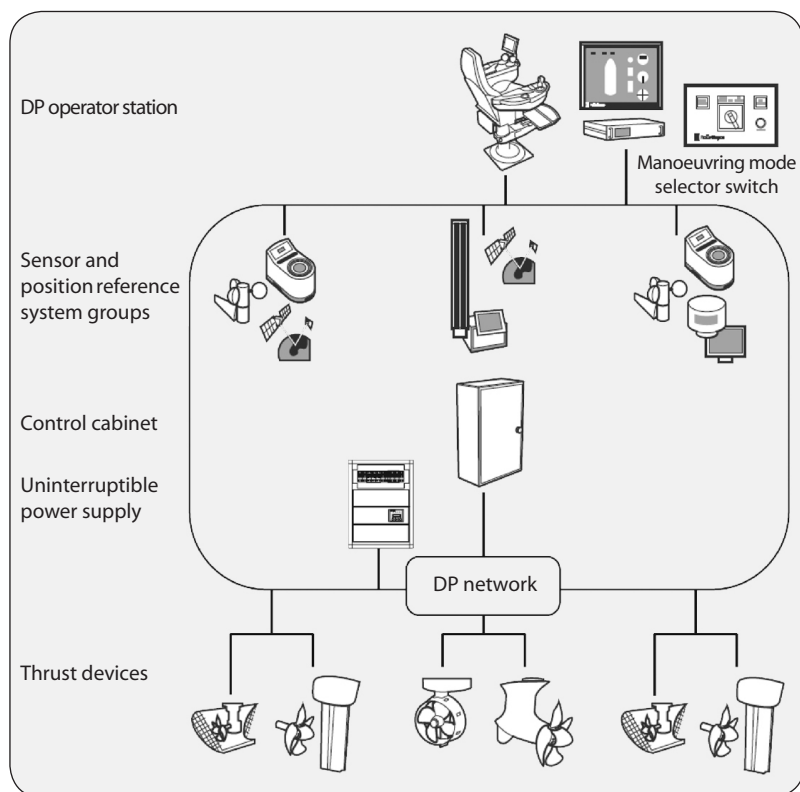
Powering

A compact UPS system delivers filtered and stabilised uninterrupted power for the Icon system. UPS status can be displayed on the DP operators screen.

Interface units

Various cabinets with input/output devices are available for discrete analogue and digital interface to external systems.

General system description - DP class 1



Unit	Function	Size (wxD) / Installation
Control cabinet	DP control unit comprising power supply, application controllers, I/O's for sensors and ref. systems. Serial line interface to Rolls-Royce thruster controls.	800x1200x300mm / wheelhouse or instrumentation room
Interface cabinet	HIL/Simulation + 2x PMS + 2x steering gear	600x600x210mm / instrumentation room
Interface cabinet	6x thrusters + 2x steering gear + 2x switch board	600x600x210mm / instrumentation room
Operator station	Standard 19" touch screen Mounting plate with CPU and terminals	Desk top mount with adjustable arm 400x600x210mm / inside control desk
Operator station - compact	10" touch-screen w/ integrated display computer	Desk top mount with adjustable arm
DP joystick and DP positioning device for operator station	DP operation control devices with integrated push buttons and LED indicator lamps.	Desk top or operator chair arm rest drop in Cut out: 90x120mm (oval) - dept 120mm
UPS	UPS with integrated batteries	560x800x880mm - weight 220kg / instr. room
Operation mode switch (DP switch)	Panel with switch and indication lights Mounting plate w/ relay and terminals	195x125mm - dept 130mm/ Desk top drop in. 150x220x180mm/ inside control desk

Sensors and reference systems according to customer requirements. All types available