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Product sheet

Raven JPOS

Dynamic positioning, engineered for precision.

RAISING THE BAR
FOR MARITIME SOLUTIONS

CONTACT ● sales@norwegianelectric.com ● www.norwegianelectric.com ● Phone: +47 55 61 30 00

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BUILT TO WORK – DESIGNED FOR PRECISION

Raven JPOS is an advanced, user-friendly, and intuitive DP-0 / DP-1 (Dynamic Positioning) system designed for precision station keeping.

Built for vessels operating in challenging conditions, it utilizes the vessel's GPS compass and can be controlled via a robust joystick interface.

With seamless integration to onboard systems and a unique autotuning function, installation and calibration are both quick and efficient.

Raven JPOS is ideal for, but not limited to, workboats and fishing vessels of all sizes — supporting operations such as ROV deployment, mooring, seabed mapping, and scientific sampling.

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KEY FEATURES

Easy to use and fast comissioning

JPOS Offers an intuitive interface that is easy for operators to manage. The system requires minimal training and ensures quick commissoning upon installation.

Remote comissioning

JPOS supports remote setup, reducing the need for physical presence during configuration and testing, saving both time and cost.

Scalabillity and flexibility

JPOS is designed for both newbuilds and retrofit projects, and it can be integrated with existing navigation equipment for maximum flexibility.

Autotuning

The system automatically tunes itself to ensure optimal performance.

Cost-effective solution

Raven JPOS is competitively priced while maintaining high quality.

Integration with Raven Integrated Navigation System (INS)

Raven JPOS can integrate with the RAVEN INS, providing a unified interface for dynamic positioning and navigation.

Go to norwegianelectric.com/navigation to learn more about the integration with Raven INS.

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DP MODES IN JPOS

Raven JPOS delivers precise vessel positioning with a simple selection of dynamic modes. Each mode is engineered for fast operation, low energy use, and reliable control. Operators choose the mode they need and focus fully on the mission — no complexity, no delays.

Position keep

Maintain the vessel's position with high precision.

Heading keep

Keep the vessel's heading steady, regardless of environmental forces.

Selectable Center of Rotation

Ability to define three different centres of vessel rotation.

Weather vane (virtual anchor)

Adjusts to environmental conditions like wind and current, simulating an anchor effect.

ECO and regular mode

Offers an ECO mode to save fuel or a regular mode for standard operations.

DP Track

Move the vessel along a pre-defined track, at a selectable speed and selectable heading.

Follow target (ROV)

Follow an external target, such as an ROV (Remotely Operated Vehicle).

Joystick Mode

Enhanced manoeuvrability for specific operational needs.

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BENEFITS FOR SHIPYARDS AND INSTALLERS

We designed Raven JPOS to make installation simpler, commissioning faster, and integration easier — helping shipyards and installers deliver better vessels, faster.

Quick commissioning and autotuning

The system allows for rapid commissioning and autotuning. Provided that a marine electriciaian is on board, proper configuration can be carried out remotely.

Reduced cabling and fewer hardware components

Simple installation with less cabling and fewer components, saving time and costs.

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APPLICATIONS & REFERENCES

Applications

Raven JPOS is suitable for, but not limited to, the following types of vessels:

- Wide variety of work vessels
- Cable laying vessels
- Live fish carriers and slaughter vessels
- Research vessels
- Windfarm vessels
- Work vessels

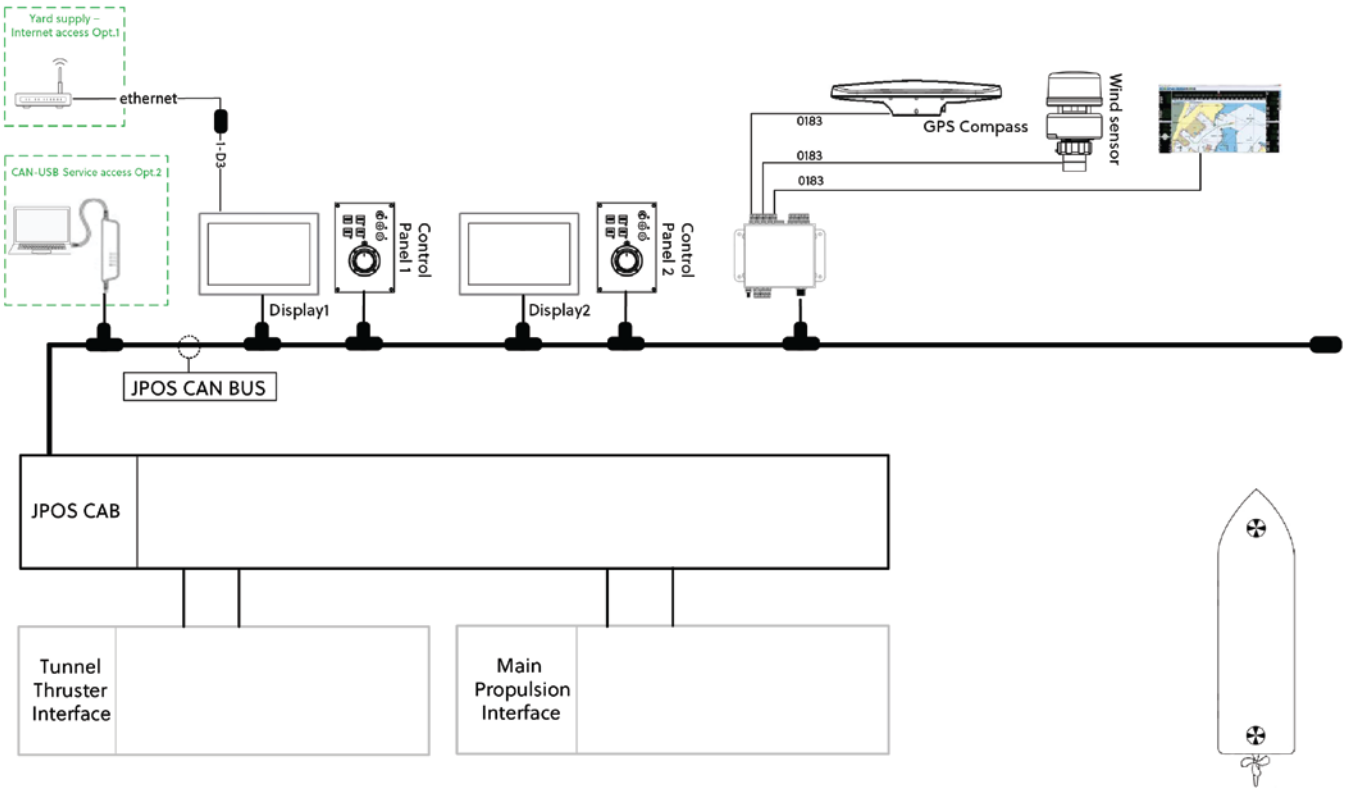
References

With over 100 DP systems delivered worldwide, Raven JPOS stands as a trusted solution on a wide variety of vessels.

System architecture

Raven JPOS uses advanced algorithms and precise sensors to maintain accurate positioning even in challenging conditions. The system provides reliable operation for various vessels.

- Sensor Interface: NMEA 2000 / NMEA 0183
- CAN Internal data bus, using standard NMEA 2000 cables
- Signal Outputs: Thruster, throttle, and gear control
- Hardware Platform: Rugged, compact electronics for harsh marine conditions.



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Raven JPOS®

Control made simple.

The Raven is regarded as a smart and intelligent bird, and its importance to the Vikings is shown by how often the bird's image is used – often painted on their sails.

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