

DP Operator Station-650

The OS-650-DP operator station is used in the Kongsberg K-Pos Dynamic Positioning (DP), Position Mooring (PM), and Dynamic Position Mooring (DPM) systems and is a purpose-built workstation for the system operator. The high-resolution display helps the operator to immediately assess the situation and the ergonomically designed panel reduces operator fatigue.



Features

- High resolution 23.1 inch flat colour TFT display gives improved image quality and a smaller, lighter workstation
- Specially designed operator panel with adjustable back-lighting
- Dedicated alphanumeric input panel
- Trackball for cursor control
- 3-axis joystick
- Optional dedicated heading wheel
- Automatic adaptation to 115 VAC or 230 VAC input voltage
- Microsoft Windows™ based Human Machine Interface (HMI)
- Dedicated built-in Operator Station computer
- Local Area Network (LAN) communication between the operator station(s) and the dynamic positioning controller(s)
- Retractable miniature PC keyboard

Description

The OS-650-DP operator station comprises a high-resolution colour display, an operator panel and a computer, all housed in a purpose-built console.

The HMI aids efficient and safe operational decisions. Emphasis has been placed on logical operation, effective presentation of relevant information and user-friendliness.

The operator panel contains dedicated buttons with integrated status lamps that are grouped according to their main function. These buttons are used to activate main modes, position-reference systems, thrusters and similar key functions. Other frequently used functions, such as display view and dialog box selection, are also initiated from dedicated panel buttons. The panel also contains an alphanumeric input panel for entering data, a trackball to control the screen cursor, a 3-axis joystick and an optional heading wheel.

Several operator stations may be connected via the communication network. Each operator station functions independently and control of the vessel can easily be transferred between the operator stations.

Standards Applied

The equipment is designed to conform to the following standards:

- EN50081-2 Electromagnetic compatibility Generic emission standard Part 2: Industrial environment.
- EN50082-2 Electromagnetic compatibility Generic immunity standard Part 2: Industrial environment.
- EN60065 Audio, video and similar electronic apparatus. Safety requirements (IEC 60065: 1998, modified).
- EN60204 Safety of machinery Electrical equipment of machines Part 1: General requirements.
- EN60950 Safety of information technology equipment.
- EN60945 Marine navigation and radiocommunication equipment and systems General requirements: Methods of testing and required test results.

CE Marking

All equipment satisfies the relevant EU directives and is marked according to FEU-1995, *Produkt- og elektrisitetstilsynet - Forskrift om elektrisk utstyr* (Norwegian Directorate for Product and Electrical Safety - Regulations for electrical equipment).

Dimensions

Height: 1199.6 mm, standard model
Width: 650 mm, without side panels*
Depth: 859.2 mm
Weight: 45.8kg

*Standard side panels are 2 mm thick

Electrical

Input voltage: 115 or 230 VAC (+10 %, -15 %)
Frequency: 50 or 60 Hz

Power consumption: 250 VA

Environmental Specifications

Ambient temperature

operational: -15° C to 55° C

storage: -20° C to 60° C

Ambient humidity

operational: 40 % to 90 % relative humidity, non-condensing

storage: less than 95 % relative humidity, non-condensing

Heat dissipation: 250 W

Acoustic noise: 26 dB(A) at 1 m

Compass safe

distance: 1.1 m

Cabinet Specification

Material: aluminium

Protection standard: IP22

Colours: black: NCS S 9000-N
or RAL 9005
white ALU: RAL 9006

Article number

OS-650-DP (115/230 VAC)

P79000

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