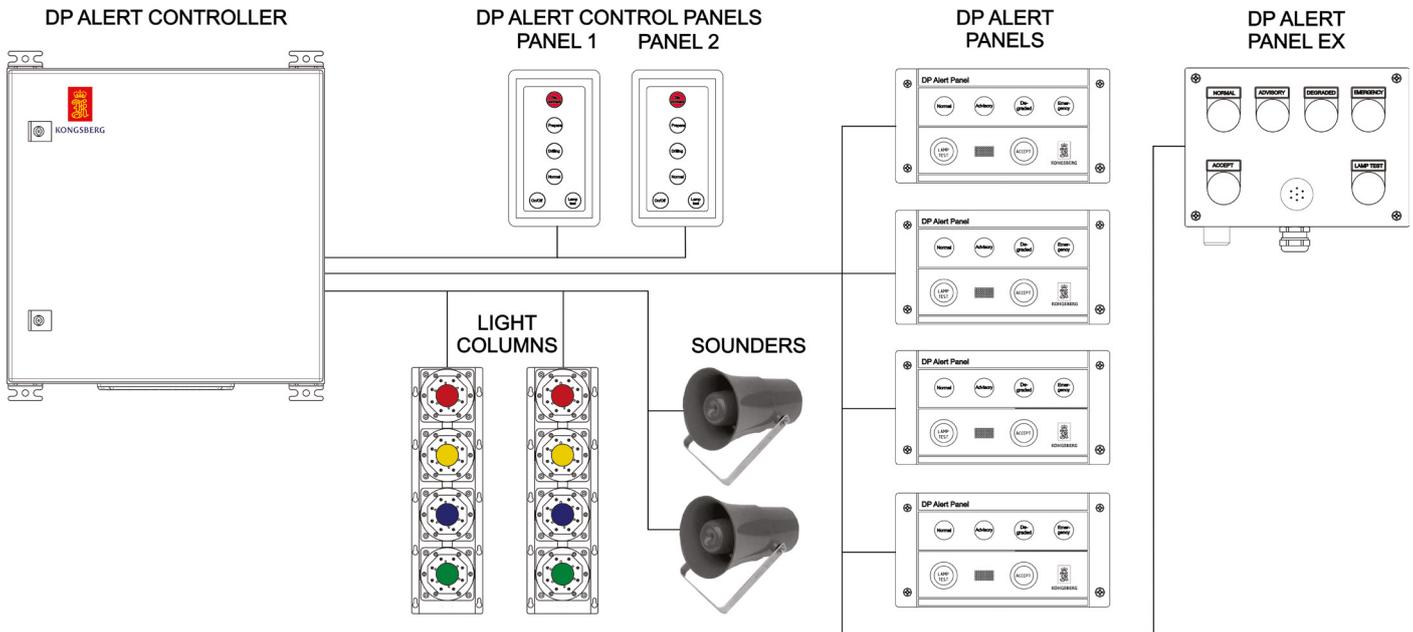


DP ALERT SYSTEM



KONGSBERG



DYNAMIC POSITIONING ALERT SYSTEM

The DP Alert System is used during diving, drilling, pipe-laying or other critical operations to give a general alert of any degradation of the DP system or the vessel's ability to continue the operation.

The system has a capacity for up to 16 DP Alert panels, two DP Alert control panels, four light columns and four sounders.

The light columns and panels are corresponding in terms of status levels.

Status levels: green, blue or white, yellow, red.



Normal operational status.



Advisory (optional) - A condition exists that must be considered by relevant personnel.



Degraded - Safe working limits exceeded - heading or position may be at risk.



Emergency - Loss of position may be inevitable, a "red condition" exists or any other emergency situation that warrants immediate action.

FEATURES

The DP operator uses the DP Alert Control Panel to manually change the alert level and escalate or de-escalate the alert status as required. This status is repeated as visual and audible signals at appropriate locations around the vessel.

- The DP Alert Controller is used for monitoring and control of the HMI modules and communicates with these modules through hardwiring. Its main functions are:
 - Monitoring and control of the status of the DP Alert Control Panel.
 - Status control of light columns and DP Alert panels - ON, OFF or flashing.

The behaviour of the status lamps are:

Green and blue or white = steadily lit

Yellow and red = flashing until accepted, then steadily lit

- Control of the sounders (at "red condition" only or at both "yellow condition" and "red condition" in accordance with owner's request) - silent, pulsed or continuous.

- The DP Alert Control Panel is used to initiate an alert. Once initiated, all panels, light columns and sounders indicate the

status level chosen by the DP operator. A flip-up transparent cover on the DP Alert Control Panel gives additional protection against inadvertent operation.

- The DP Alert Panel is used to acknowledge an alert. Once accepted, any flashing lamps turn steadily lit (button and associated light columns) and audio signals (buzzer and associated sounders) are silenced.
- If required, any DP Alert Panel incl. the Ex version can be designated as master panel. By acknowledging an alert at a master panel, the operator accepts the alert on all panels, light columns and sounders. By acknowledging at a slave panel, visual and audio signals at that local panel are accepted, including any associated light columns and sounders. However, one or more groups can also be configured to obtain common group acknowledging.
- As part of the Automatic DP Alert (option), the communication between the DP Controller and the DP Alert Controller is provided by RS-422 serial line.

TECHNICAL SPECIFICATIONS

DP Alert Controller Cabinet

The DP Alert Controller Cabinet is designed for installation in non-hazardous areas such as an instrument room.

- Powder-coated sheet steel
- Wall-mounted
- Dimensions (H x W x D): 560 x 500 x 300 mm
- Weight: 25 kg
- Input voltage: 115/230 VAC supplies the other equipment with 24 VDC
- Consumption: 60 W (typical)
- IP44
- Temp. range: 0 to +55 °C
- Item no.: 405471



DP Alert Control Panel

The DP Alert Control Panel is designed for installation in the DP operator stations in non-hazardous areas.

- Powder-coated aluminium
- Drop-in or flush-mounted
- Dimensions (H x W x D): 184 x 118.5 x 109 mm
- Weight: 1.5 kg
- Input voltage: 24 VDC
- Consumption: 9 W (max)
- IP22
- Temp. range: -25 to +55 °C
- Item no.: 405396



DP Alert Panel

The DP Alert Panel is designed for installation in non-hazardous areas; e.g. cabins, offices, control rooms, etc.

- Powder-coated aluminium
- Drop-in or bulkhead-mounted
- Dimensions (H x W x D): 110 x 200 x 73.5 mm
- Weight: 1.5 kg
- Input voltage: 24 VDC
- Consumption: 10 W (max)
- IP56 (with enclosure) and IP20 (without enclosure)
- Temp. range: -25 to +55 °C
- Item no.: 405397



Specifications subject to change without any further notice.

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DP Alert Panel (Ex)

The DP Alert Panel (Ex) is designed for installation in hazardous area zone 1. Three different DP Alert panels are available suited to the owner's operational requirements.

- II 2 G Ex ed IIC T5 Gb
- Stainless steel
- Bulkhead-mounted
- Dimensions (H x W x D): 176 x 236 x 119 mm
- Weight: 5 kg (max)
- Input voltage: 24 VDC
- Consumption: 5 W (max)
- IP65
- Temp. range: -25 to +55 °C
- Item no.:
 - 417546: Green-yellow-red
 - 417545: Green-blue-yellow-red
 - 410155: Green-white-yellow-red



DP Alert light column (Ex and non-Ex)

The DP Alert light column Ex is designed for installation in hazardous area zone 1 and other exposed areas, and the non-EX column in non-hazardous areas.

- II 2 G Ex d IIC T6 Gb
- UV-resistant GRP
- Wall-mounted
- Dimensions (H x W x D):
 - 3 lamps: 788 x 200 x 230 mm
 - 4 lamps: 957 x 200 x 230 mm
- Weight: 13 and 17 kg
- Input voltage: 24 VDC
- Consumption: 530 mA (per LED lamp)
- IP66
- Temp. range: -40 to +70 °C
- Item no.:
 - 401800 (Ex), 425205 (non-Ex): Green-yellow-red
 - 401803 (Ex), 425206 (non-Ex): Green-blue-yellow-red
 - 401802 (Ex), 425207 (non-Ex): Green-white-yellow-red



DP Alert sounders (Ex and non-Ex)

The sounders are designed for installation in non-hazardous areas and in hazardous area zone 1.

- Ex spec:
- II 2 G Ex d IIC T4/T5/T6 Gb
 - UV-resistant GRP
 - Wall-mounted
 - Dimensions (H x W x D): 163 x 163 x 245 mm
 - Weight: 2.6 kg
 - Input voltage: 24 VDC
 - Consumption: 600 mA (typical)
 - IP66 (non-Ex) and IP67 (Ex)
 - Temp. range: -55 to +70 °C
 - Item no.:
 - 416392 (DB15 non-Ex, IP66)
 - 318532 (DB3B, Ex, IP67)



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