K-Chief 600
Alarm and Command Panel

The Alarm and Command Panel (ALC) is a specially designed operator panel for the K-Chief 600 Marine Automation System in the bridge environment.

The panel layout is grouped into separate functional areas:
- Alarms
- Panel
- Command

The **Alarms group** contains three lamps and three buttons which are used to indicate, acknowledge and handle alarms and events.

The **Panel group** contains status lamps. The Power lamp is lit green when power is ON. The Fault lamp is lit red when a panel has lost communication with the host computer.

The **Command group** contains three buttons. To open the command control dialogue box easy and fast, use the CMD CTRL button. The 1 and 0 buttons allows the operator to start and stop pumps/valves/compressors in an efficient way.
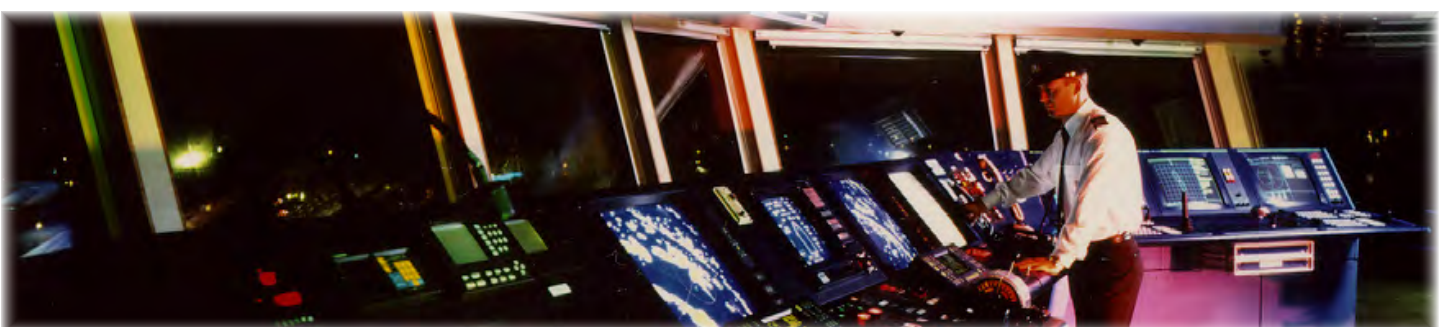
Alarm and Command Panel functions comprise:
- Alarm and unacknowledged alarm indication
- Remote sound off
- Internal self-check with alarm
- Power indication
- Fault indication
- Status LEDs, internal and external dimmable
- Easy installation from the top of the console
- I/O for interfaces

The built-in buzzer is used to generate a sound when a new alarm occurs. The buzzer will also indicate other events, for example when power is lost or during command control actions.

The Alarm and Command Panel is used in the bridge environment, and it is therefore supplied with back light to be visible on a dimmed bridge.

To fully replace the standard Control Room Panel (CRP), which usually is used in the Engine Control Room, an Integrated Navigation Panel (INP) has to be added.

Technical specifications

Supply voltage
- 18 to 32 Vdc ±5 % ripple

Power consumption
- 2.5W maximum
- 1.3 W nominal

Ingress Protection
- IP22

ENV properties
- IACS E10
- IEC 60945

Shock and vibration
- IACS E10
- IEC 60945

Max relative humidity
- RH 96% non-condensing

Storage temperature
- 25 ºC to + 70 ºC in a dry area with approximately 70 % humidity

Communication
- USB2 HID

Mounting
- Flush mount from top

Housing
- Aluminium

Weight of unit
- 0.25 kg

Dimensions
- Width: 99 mm
- Height: 104 mm
- Depth: 49 mm

Panel cut-out
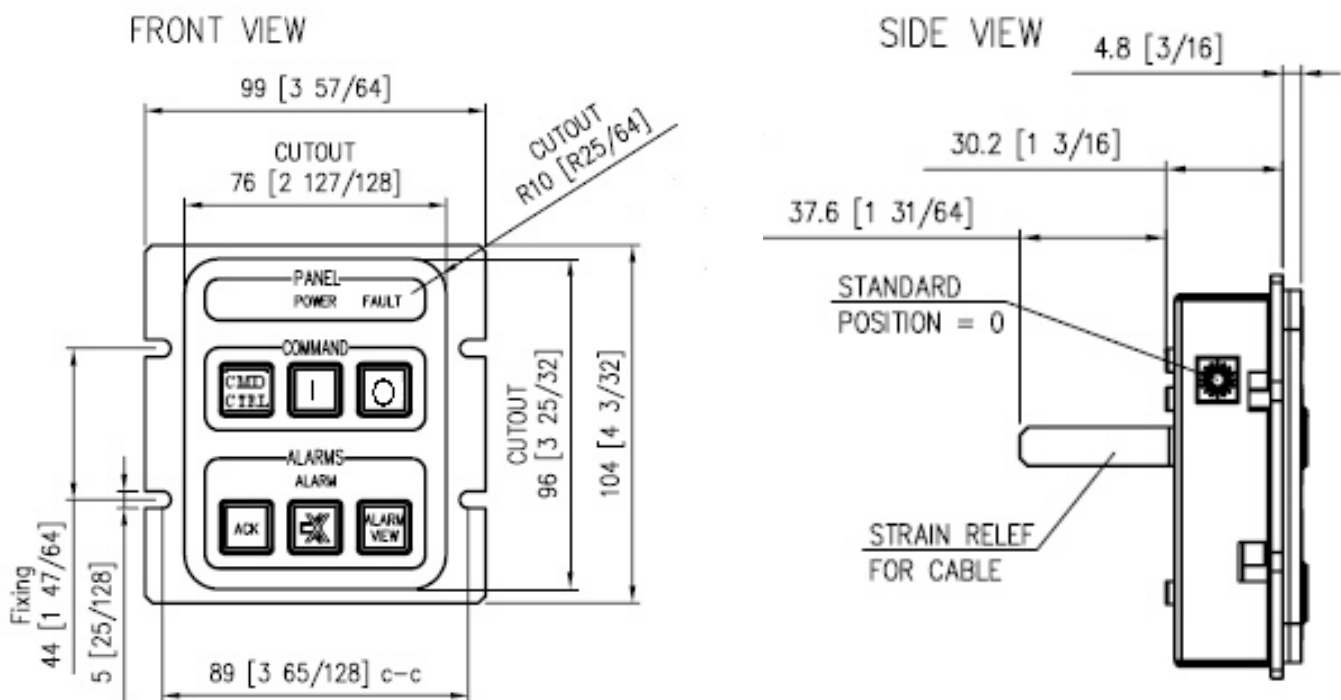- See separate drawing for details

BIST (Built In Self Test)
- Module temperature

Isolation
- Power: Fully isolated via DC/DC converter
- I/O: Dry contact DO/DI chassis used as 0 Volt reference

Type approval
- DNV, LRS, BV, GL, RINA, NK, ABS, KR, RMR, CCS. (allows direct mounting on engines, compressors, etc. in suitable cabinets)

FRONT VIEW

SIDE VIEW

345410 / Rev. A

KONGSBERG