

AutoChief® C20

AutoChief® Control Panel (ACP)



KONGSBERG



Description

The AutoChief® C20 ACP is the main operator control panel. Normally situated on the navigation bridge and in the engine control room. It features a 7 inch colour graphics display with a resolution of 854 by 480 pixels, one large centrally positioned “operation wheel” and six metal-film push-buttons.

The display is comprised of several graphic elements known as “mimics”. By rotating the operation wheel left or right, individual mimics can be selected and then activated by pushing down on the operation wheel. The operation wheel is used for menu selection, mode changes and AutoChief® C20 configuration changes.

Each push-button contains its own light emitting diode. This diode helps the operator to visually confirm button status at all times. During low light conditions a built inn back-light will assist the operator in seeing each of the push-buttons as well as the display.

Functions

- Engine RPM
- Command RPM
- Starting air indicator
- Load indicator
- Remote control alarm indications
- Remote control state indications
- Main engine safety and control functions
- Set point limitations
- Push-buttons with lamp for cancellation of shut down/slow down
- Transfer of control position
- Sound off
- Alarm acknowledge
- Alarm buzzer



Technical Specifications

Supply voltage

- 18 to 32 VDC $\pm 5\%$ ripple

Voltage scaling

- $\pm 0.1/1/5/10$ [Volts]

Current scaling

- $\pm 1/5/10/20$ [mA]

Power consumption

- 20watts (THL)

Display

- 7 inch TFT colour at 854 by 480 pixels.

Housing

- Aluminium

Weight of unit

- 4,2 kg

Dimensions

- 256 x 316 x 94 mm

Panel cut-out

- See separate DWG for details

Panel cut-out

- Flush

IP Code

- IP22

EMC properties

- IACS E10
- IEC 60945

Mechanical environment

- IACS E10

Operational temperature

- -15°C to $+70^{\circ}\text{C}$

Storage temperature

- -25°C to $+70^{\circ}\text{C}$ in a dry area at approximately 70% humidity

Max relative humidity

- 96% with no condensation

Isolation

- Power: Fully isolated via DC/DC converter
- I/O: Fully isolated I/O channels with 0 volt reference source through the main chassis
- CAN-bus: Fully isolated via optical coupler

Signal types

- 3 channels potentiometer input, 3 wire connection (4.5V, wiper, 0V). 20k potentiometer with line check, broken only
- Voltage scaling set at 0-5volts
- Technical units: Free range
- 2 channel relay output with changeover contacts. Maximum inductive load set at 3A, 24VDC

Communication

- 2 x LAN 10/100Mbit
- 2 x CAN-busses

Accuracy

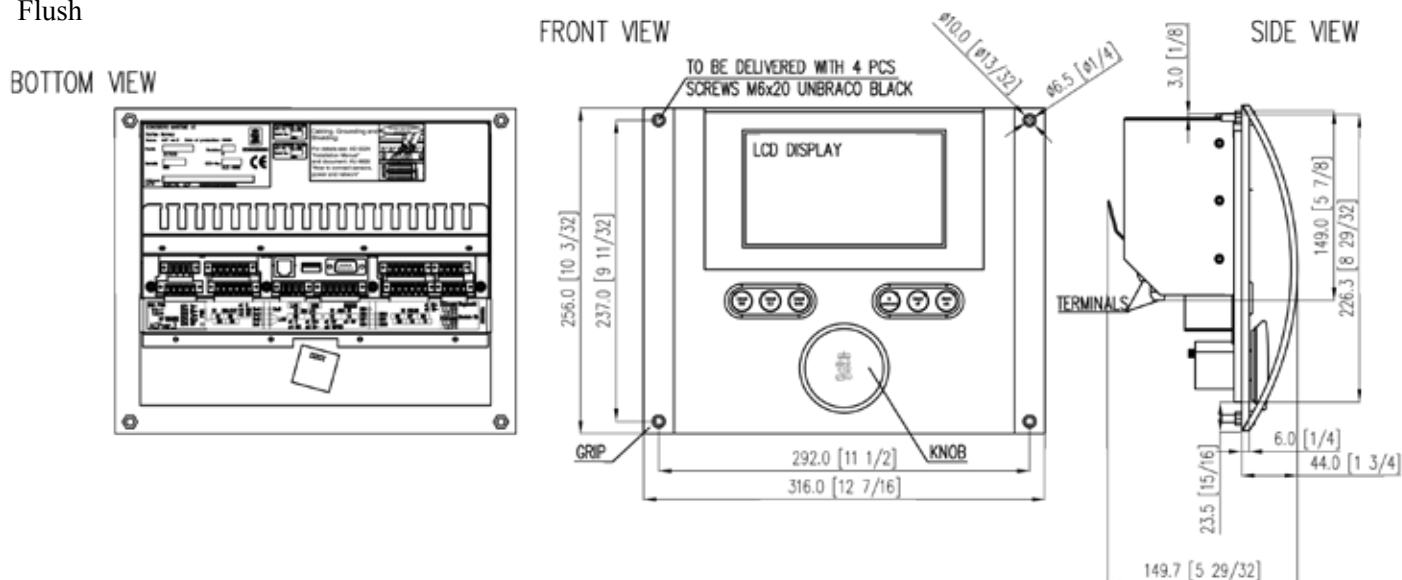
- Analogue input $\pm 1\%$

BIST (Built In Self Test)

- Module temperature.

Type approval

- DNV, LRS, BV, GL, RINA, NK, ABS, KR, PRS, MRS (Russia), CCS (China)



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Specifications may be subject to change without prior notice

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