

# AutoChief® 600

## Lever Telegraph Unit (LTU11)



KONGSBERG

### Description

A combined lever type Engine Telegraph & speedset unit enables the operator on the bridge to be in direct command of the ship by providing speed and rotation control of the main engine. Communication is established between the bridge, the engine control room and local stand via the telegraph system.

The unit is designed with a touch sensitive screen, a push-button, and a combined telegraph and speedset lever with redundant speedset to the Governor.

### Available control locations

- Bridge
- Engine control room (ECR)
- Optional, other locations



### Functions

#### Telegraph positions

The following 11 telegraph steps are indicated with light diodes:.

- Ahead: Dead slow, slow, half, full, navigation full
- Stop
- Astern: Dead slow, slow, half, full, emergency astern

Additionally, the lever can be moved between the steps as well for adjusting command. It is also possible to use a fine tuning mechanism on the touch display.

#### Sub telegraph modes

The sub-telegraph functions are used to inform the engine crew about their state of alert, and subsequent need for propulsive and electric power.

- Finished with engine (FWE)
- Stand-by
- At sea

#### Command transfer

The command transfer function can be found on the touch sensitive display. Buttons are used for both indicating current command position and command transfer.

#### Emergency stop

The Emergency Stop push-button is located under a protective cover. This will activate the emergency stop system in the main engine safety system.

#### Touch screen lock

When activated the lever will move back to locked setting if moved.

#### Wrong Way indicator

The LTU is equipped with a Wrong Way indicator. The alarm is released if the engine does not rotate in ordered direction, while in engine room control.

## Technical Specifications

### Supply voltage

- 2x 18-32 VDC Dual & independent.

### Weight of unit

- 3.8 kg

### Mounting

- 4 pcs clamp with a nut lock. Max. console plate thickness 8.5mm.

### Isolation

- Power BPU11/LTU11: Isolated/ floating from module chassis.
- BPU11 isolated from LTU11.
- CAN: Individually isolated
- Emergency Stop: Isolated

### Power consumption

- LTU11 12W
- BPU11 2.4W

### IP Code

- IP 22

### Environment tests

- IACS E10
- IEC 60945

### Mechanical environment

- 1 g

### Operational temperature

- - 15 °C to + 70 °C

### Storage temperature

- - 25 °C to + 70 °C

### Max relative humidity

- 96 % non-condensing

### Connections, pluggable

- I/O 2 terminals 2.5 mm2
- Power 4 terminals 2.5 mm2
- CAN bus 4 terminals 2.5 mm2

### Communication

- 2 CAN ports for communication with Host.

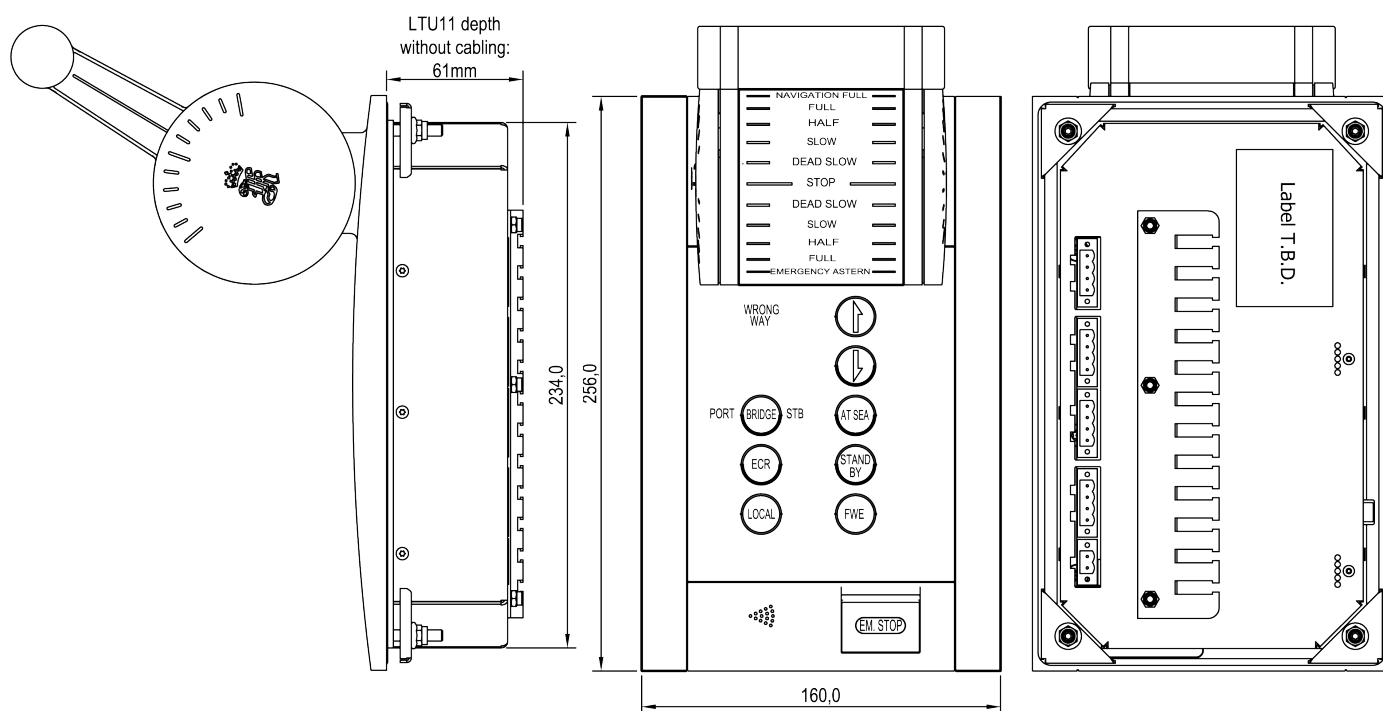
### Type Approval

To be established with:

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

### Part number

- 364330



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