



AutoChief® Propulsion Control System

Speed and Fuel Pilot

The Kongsberg AutoChief® can be fitted with functionality to maintain a preset vessel speed without exceeding a preset fuel consumption. This functionality is included in existing hardware, only requiring inputs from process reference (i.e. speed and fuel consumption). The Speed and Fuel Pilot integrates seamlessly and is easily cancelled by the operator.

The pilots are input to Lever and Telegraph Unit (LTU) providing:

- Indication setpoint
- Bumpless transfer between control positions
- Safety maintained and same as in manual control
- Independent of CPP mode. Can be used in both fixed and combinator mode.

Key features

- Simple installation
- Predictable speed and fuel consumption
- Easy to use



Main Features

Speed Pilot

- Maintains speed according to reference (STW or SOG) by controlling lever setpoint
- May receive speed set from route planning tool /advisory system

Fuel Pilot

- Limits the maximum consumption based on inserted max kg/h
- Intended to operate in cooperation with Speed pilot. E.g. maintain the speed, reduce speed if exceeding preset fuel consumption
- Several fuel types may be added with separate limits. Separate presets for gas/FO

Operation

- Fuel and Speed pilot can be activated/deactivated separately.
- If running in combination with both fuel and speed pilot active. Fuel pilot will have highest priority (master).

Control Panel:

Status Indication

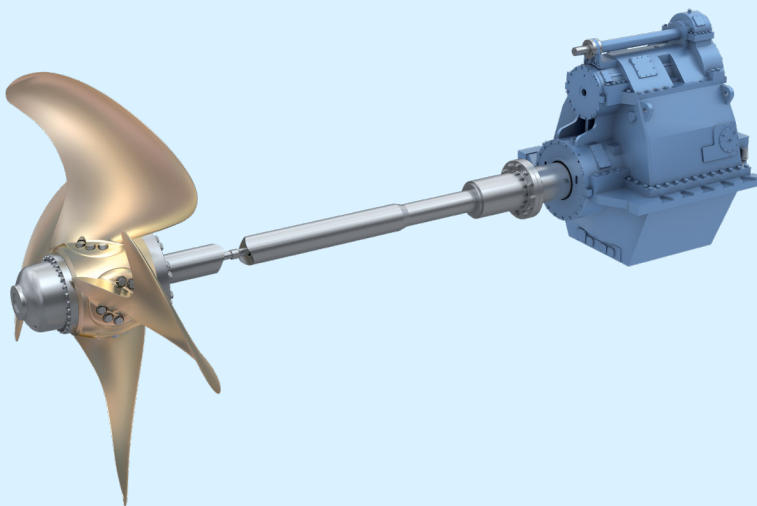
- Pilot readiness
- Setpoint
- Reference feedback
- Engine/propeller limit

Inputs

- Activate/deactivate
- Setpoint

Limitations:

- Speed pilot speed set change requires more tuning compared to regular speed keeping from lever control.
- Fuel pilot will only reduce setpoint, not increase.
- Fuel consumption input must be actual consumed by main engine



Applicable Motortypes:

- Everlence B&W ME-C
- Everlence B&W ME-GI
- Everlence B&W ME-LGIM
- Everlence B&W ME-LGIP
- Everlence B&W MC
- WinGD X
- WinGD X-DF
- WinGD X-DF-A
- WinGD X-DF-M
- WinGD RT-Flex
- Mitsubishi UE