



# BOSS™ ECO

IMPROVING THE OPERATIONAL PERFORMANCE

# Economiser (ECO)

**Damen Marine Components developed the BOSS™ ECO to provide insight into excessive rudder movements using the sensors of the ship.**

A touchscreen display with integrated software continuously calculates and shows the steering behaviour in relation to the steering movements and rudder angles, aligned to the actual sailing situation. The BOSS™ ECO system measures and shows the following: rudder angles, CO<sub>2</sub> emission, fuel consumption per litre or kilometre, speed, rate of turn (ROT) and steering efficiency indicator (SEI). By giving insight into these measurements, it allows the captain to be more conscious of his or her sailing behaviour, which can lead to considerable fuel savings. Preliminary practice results show fuel savings of approximately 12%.

In addition, the BOSS™ ECO system saves the data in a trip registration sheet. The data, which is collected

per voyage, will be saved in an overview where you can directly compare your steering behaviour and efficiency. It is possible to send the data overview via e-mail, to save it or to print it.

Manoeuvring is necessary on inland waterways. Every rudder movement creates extra ship resistance and by preventing excessive steering corrections you can improve your transport performance (EOI). It is proven that, once the BOSS™ ECO is used according to its functions, fuel savings up to 20% can be achieved.

The BOSS™ ECO system is suitable for all types of vessel, both new built and retrofit. If not already present, DMC additionally supplies an accurate fuel sensor.



## KEY FEATURES

- Considerable fuel savings
- Reduced wear of rudder and steering equipment
- Minimal maintenance
- Improved transport performance (EOI)
- Up to 70% less steering movements
- Ready for IOT-cloud

## ESPECIALLY SUITED FOR

- Vessels with hydraulic rudder-and steering systems

