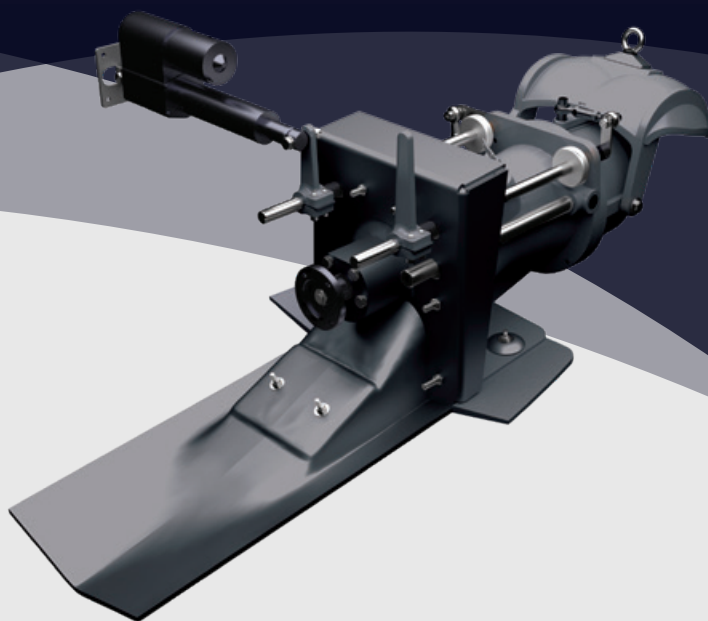


ACU

ACTUATOR CONTROL UNIT



The Actuator Control Unit system or ACU system is a modular propulsion control system designed to be adaptable for multiple configurations with simple selection of modular components.

The ACU system can be used to control the waterjet deflector and waterjet steering, as well as engine throttle or gearbox engagement.

The main unit in the system is the ACU itself. The ACU is a controller box which can control one (1) actuator at a time within the overall system.

The ACU can accept its own internal potentiometer control, an external signal supply (typically 0–5v) or a CAN signal (NMEA 2000, rudder message).

The ACU can be configured via the integrated button and 'traffic light' LED's or a Service Tool item (option).



Supply voltage

12 Vdc $\pm 20\%$ or 24 Vdc $\pm 20\%$,
reverse polarity protected

Idle current

typ. 50mA

Motor current

max. 26 A (at 65°C ambient temp.
and 25 % duty cycle)

Current limit

26 A at 12 V, 13 A at 24 V

Overheat limit

90°C

PWM frequency

3,8 kHz

Position control signal

0 ... 5 V or potentiometer 5 k Ω ... 10 k Ω
(scale can be calibrated)

Fault output

NPN open collector,
max 30V / 200mA

EMC

CE-tested for marine environment

Operating ambient temp

-40...65 °C

Protection class

IP67

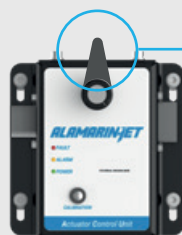
Dimensions

155x150x35 mm

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Setup : ACU-MD

For use with AJ 160, AJ 180 and AJ 185 mechanical deflector control



Mechanical Connection

Connect a standard 33C cable to the lever and control the electric actuator

Output

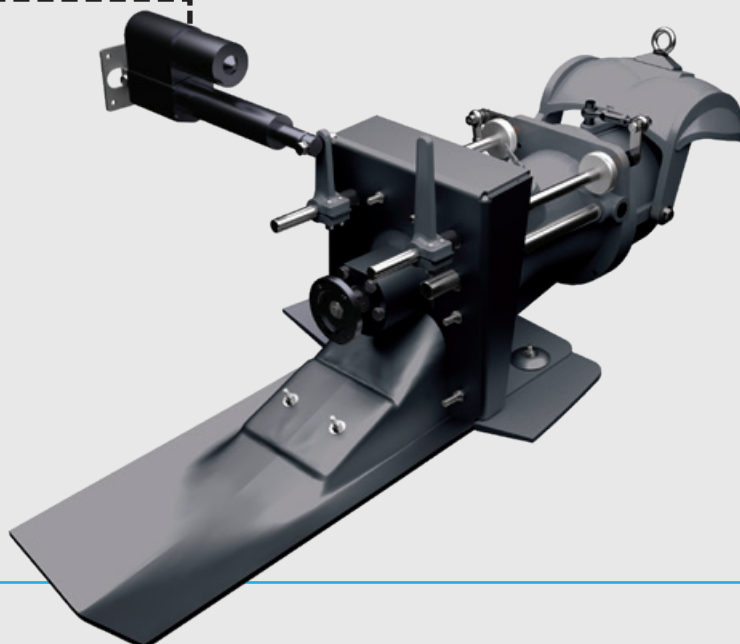
Input

CANBUS Connection

CAN signal input for use with electronic lever to control the actuator

Analogue Connection

0-5V analogue signal input for use with electronic lever to control the actuator



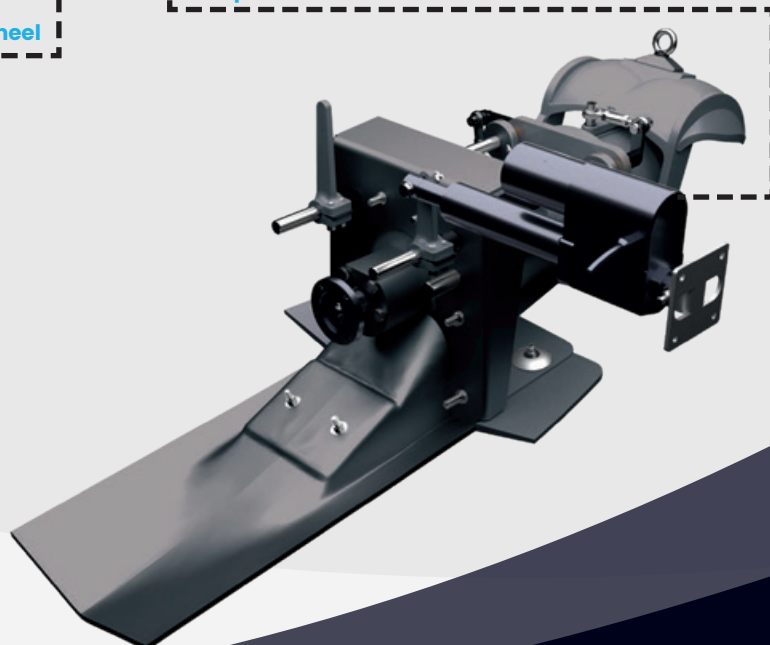
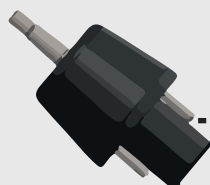
Setup : ACU-ES

For use with AJ 160, AJ 180 and AJ 185 mechanical steering control



E-Wheel

Output



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