

**STANDARD SPECIFICATIONS:-**

**BASIC E-SERIES STAND-ALONE STEERING SYSTEM**

ENVIRONMENTAL: 0-50degC  
 STEERING COMPATIBILITY:- All solenoid activated power steering units.  
 AUTOPILOT:- All autopilots with solenoid drive outputs  
 POWER CONSUMPTION:- 300mAmps Control current. 2.5amps during solenoid activation

**ES-801 COMMANDER HELM UNIT**

CONSTRUCTION:- Heavy duty marine construction with stainless steel wheel shaft, high quality bearings and seals with adjustable wheel tension for heavy seas.  
 TURNS:- 3 turns lock to lock with limit stops

**ES-801C HELM PANEL**

FUNCTION:- Select helm position for use  
 DISPLAY:- LED indicator of power status and steer status.  
 ALARM:- LED indicator of alarm mode - varying frequency used for diagnostics.  
 DIMENSIONS:- 95mm x 95mm x 55mm  
 MOUNTING:- Panel Mount  
 CABLE:- .5M to helm plus 6M to J/Box. Other sizes available on request

**ES-802 MINI HELM UNIT**

CONSTRUCTION:- Compact design includes mini wheel.  
 TURNS:- 270degrees for 90 degree control  
 MOUNTING:- Panel mount - Square bezel optional

**ES-803 FOLLOW UP LEVER**

TURNS:- 270degrees for 90 degree control  
 DIMENSIONS:- 95mm x 150mm x 55mm  
 MOUNTING:- Panel mount

**ES-804 NON FOLLOW UP LEVER**

ACTION:- Spring centred joy-stick type action  
 DISPLAY:- LED's green and red for direction  
 DIMENSIONS:- 95mm x 150mm x 55mm  
 MOUNTING:- Panel mount

**ES-805 CONTROLLER JUNCTION BOX**

INPUT VOLTAGE:- 12v-24VDC  
 DIMENSIONS:- 250mm X 275mm x 55mm  
 MOUNTING:- Face fix

**ES-806 RUDDER TRANSDUCER**

CONSTRUCTION:- Heavy duty marine materials including stainless steel link arm. **Note: Two units are required for independent synchronised rudder control.**

**RAI-1 RUDDER ANGLE INDICATOR**

INPUT VOLTAGE:- 12v-24VDC  
 DIMENSIONS:- 65mm dia  
 MOUNTING:- Panel mount

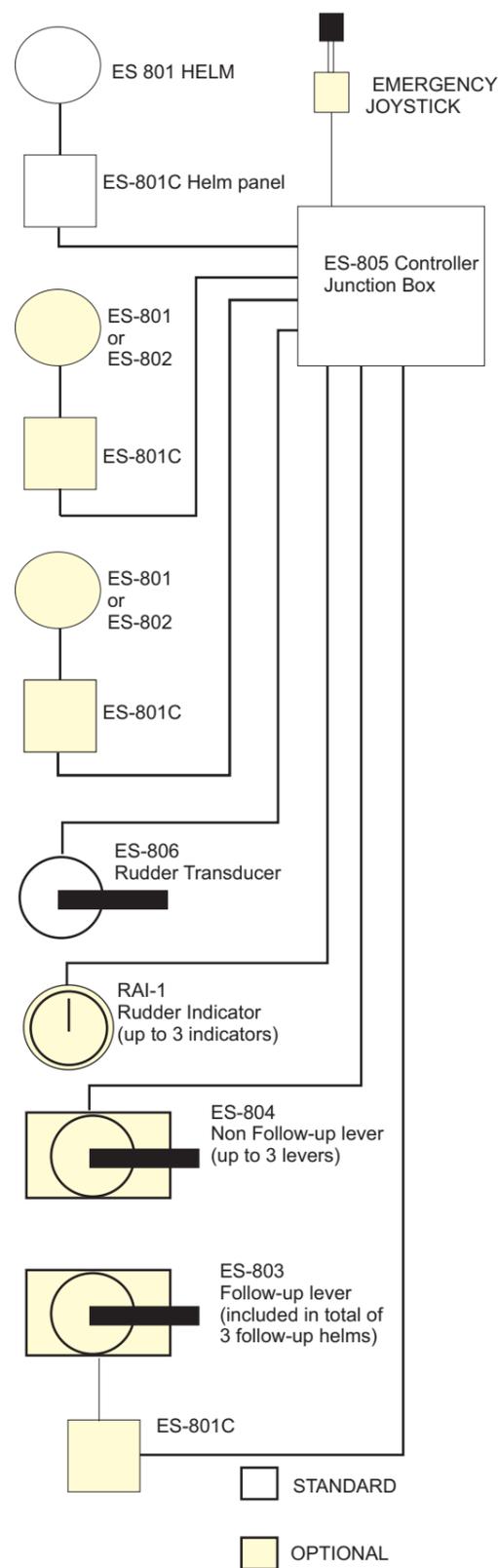
**EMERGENCY JOYSTICK**

Simple 2-directional joystick for panel mounting - supplied with 2 limit switches and special arc-suppression module to allow totally independent control of steering - even if main steering controller is deprived of power.

This option is recommended for single engine vessels where no alternative steering system is available



**E-Series Commander**



System compliant EN 60945 (EN 6100-4-3)



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**E-Series Commander**  
**Electronic Steering**



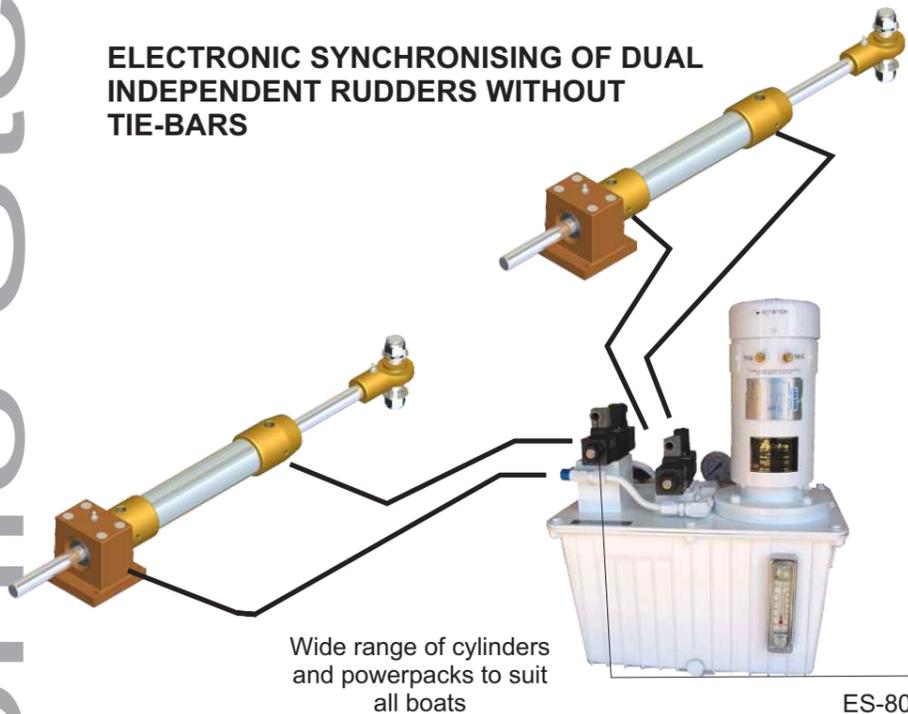
**For Catamarans**  
**Power Cruisers**  
**Motor Yachts**  
**10 metres - 30 metres**

# E-Series Commander

ES-801 COMMANDER helm unit - 3 turns with adjustable wheel brake



**ELECTRONIC SYNCHRONISING OF DUAL INDEPENDENT RUDDERS WITHOUT TIE-BARS**



Wide range of cylinders and powerpacks to suit all boats

ES-801C Helm selector panel



ES-805 Control System Junction Box



Emergency Joystick

ES-806 Rudder Transducer (one required for each rudder if independent)



ES-802 Mini helm unit - 270 deg



ES-807 Joystick



ES-803 Follow-up lever unit - 270 deg



ES-804 Non Follow-up lever unit



- Save on expensive installation costs
- No plumbing of multiple hydraulic lines
- Simple multicore cable connections
- Up to 3 full follow-up stations
- Unlimited non-follow up stations
- Electronic synchronising of dual rudders without mechanical tie-bars
- Super-Cat steering *without* the super price

The E-Series Commander range of electronic steering is based upon the highly successful HyDrive E-Series SuperYacht and commercial integrated steering and telemetry systems for boats from 30 metres to over 100 metres.

HyDrive has been a specialist steering manufacturer since 1966 and the long term experience in the technology and requirements of steering are reflected in this 21st Century steer-by-wire addition to our range.

The HyDrive E-Series system now offers SuperYacht steering but for smaller boats and provides a very economic installation without complicated and expensive hydraulic circuits - no multiple hoses and valves - vibration control and no need to access leaking fittings. One multi-core cable is all that is required from the bridge, the flybridge, bridge wings and even rear stations.

The **core-pack** of the system comprises a single steering helm, selector panel, controller junction box and a rudder transducer. This is all you need to get started and can be connected to an existing power steering system - or can be installed using one of our large range of power packs and matching cylinders for the best possible steering combination. For additional safety, an emergency joystick control can be included which can operate independently in the event of power loss to the main controller.

You can then simply add up to 2 extra full follow-up steering positions, and an unlimited number of joy-stick or non-follow-up lever stations - making it extremely versatile and very economical.

Any brand Autopilot can connect directly into the controller which accepts all solenoid drive type autopilots - no need for separate power-packs or pumps - saving further costs.

**Safe - Simple - Superb  
Steering Control**

