

Yacht & Commercial Steering

**Steering Control Amplifier
SCA 200**

(for Full Follow-up Electric Steering)

The SCA 200 provides very accurate “steer by wire” electronic steering. The SCA is fully capable of either “full follow-up” or “non-follow-up” operation. Any electric steering controller such as a “full follow-up” lever controller, a remote “full follow-up” lever, an electric helm, or an autopilot can be used as an input device. When the actual rudder order command is compared with the actual rudder position the SCA will determine which way the rudder has to be moved. Also, an appropriate ON/OFF signal to the 4-way directional solenoid valve will be given. The SCA can also be used with a “non-follow-up” steering device such as a “jog” lever.



Design Features

- Power requirement: 10–36 VDC, <200mAmp.
- Fully capable of FFU and NFU steering modes operation.
- ON/OFF dual speed rate operation, slow / fast speed adjustment.
- Internal rudder angle limit set. Adjustable deadband.
- Stand-alone CRAI (Constant Rudder Angle Indication) circuitry.
- Built-in ROI (Rudder Order Indicator) output.
- Quick disconnect, water resistant plugs with strain relief. No internal wiring required.
- NEMA 4 box with neoprene cover gasket.

For further details please consult the technical manual MAN 01501.

Part number	Description	Voltage	Lbs (Kg)
JA-701002-1	SCA 200 steering control amplifier	12 VDC	6.6 (3.0)
JA-701002-2	SCA 200 steering control amplifier	24 VDC	6.6 (3.0)
JA-710015-1	SCA 201 steering control amplifier	110 VAC	6.6 (3.0)

**Yacht &
Commercial Steering**

Steering Control Amplifier SCA 300

(for Full Follow-up Electric Steering)

The SCA 300 steering control amplifier provides very accurate “steer by wire” electronic steering. The SCA is fully capable of either “full follow-up” or “non-follow-up” operation. Any electric steering controller such as a “full follow-up” lever controller, a remote “full follow-up” lever, an electric helm, or an autopilot can be used as an input device. When the actual rudder order command is compared with the actual rudder position the SCA will determine which way the rudder has to be moved and an appropriate signal to the 4-way directional proportional solenoid valve will be given. The SCA can also be used with a “non-follow-up” steering device such as a “jog” lever.



Design Features

- Power requirement: 10–36 VDC, <200mAmp.
- Fully capable of FFU and NFU steering modes operation.
- Proportional rate operation, acceleration / deceleration.
- Internal rudder angle limit set. Adjustable deadband.
- Stand-alone CRAI (Constant Rudder Angle Indication) circuitry.
- Built-in ROI (Rudder Order Indicator) output.
- Quick disconnect, water resistant plugs with strain relief. No internal wiring required.
- NEMA 4 box with neoprene cover gasket.

For further details please consult the technical manual MAN 01502.

Part number	Description	Voltage	Lbs (Kg)
JA-701004-1	SCA 300 steering control amplifier	24 VDC	6.6 (3.0)