

RUDDER ANGLE INDICATOR

TMQ Rudder Angle Indicator Units may be used in conjunction with a TMQ autopilot or as a “stand alone” indicator system.

When used with an autopilot, the indicator is connected into the rudder feedback cable with necessary power being supplied from the autopilot.

When used as a stand alone system the rudder angle indicator requires a separate rudder feedback unit, dropping resistors and a 12 or 24 volt DC supply (see diagrams)

Mounting the Rudder Indicator

- Select a mounting position in a dry area where the dial can be easily viewed from the steering position
- Cut a hole of required diameter (clearance for 105mm) for the body of the indicator
- Cut the autopilot rudder feedback cable; strip back wires to a length of approx. 1 cm; reconnect the wires into the rudder indicator terminal strip (matching correct wire colours – red to red, green to green, blue to blue)
- A separate connection exists for back light illumination. 12 or 24 volts DC power is connected to the relevant terminal.

Note: It is recommended that the indicator be tested and calibrated BEFORE final mounting procedures are completed.

Testing and Calibrating – Autopilot Connection

- Indicator should be reading “zero” with autopilot off
- Set vessel rudder to midships by turning the helm. If possible, visually check rudder is at centre.
- Switch autopilot to standby. Indicator should still read “zero”
- Turn helm 30 ° to port – indicator should now read 30 °. If not, adjust until correct *. Recheck for starboard direction.

Access to Calibration Adjustment

- Remove rear cover of indicator. Calibration adjustment is via 5 mm hole near terminal block.
- Using a small flat blade screwdriver (3mm) carefully adjust potentiometer until indicator reads correct angle * Note: adjustment affects both port and starboard directions.
- On completion of adjustment, replace rear cover.

Final Mounting of Indicator

- Position the indicator
- Insert the 4 mounting screws – DO NOT OVER TIGHTEN
- Insert the 4 screw caps