

# "Rudder 3" Installation Diagram

Software Version 1.0

## Calibration

There are four modes of calibration depending on the type of operation intended. The mode required is selected by simply switching power to the unit off to terminate further calibration procedure once the necessary information has been stored. The four modes are:

1. Amidships calibration, which can be performed either at the dock, or later during a sea trial without affecting the previously stored or factory default end stops.
2. Amidships and 'hand' calibration but keeping factory default range, i.e.. 1 degree of RRU movement indicates 1 degree on meter. ('Hand' corrects for clockwise or anticlockwise RRU movement).
3. Amidships and end stop calibration so that meter points to full scale, (normally 40), at each rudder end stop.
4. Reset. The unit may be reset to factory default calibration by setting the amidships and port calibration to the same rudder position.

## Procedure

1. Set helm to mid position.
2. Whilst holding in calibrate button, switch on power to Rudder unit, then release push button. Wait for meter to rotate 360 degrees, (to signify calibration mode and allow electronics to settle), and rest pointing to amidships. Either switch off and back on to complete amidships calibration or continue to next procedure.
3. Turn Helm to Port end stop. (Or for reset, just press button without moving helm to complete reset procedure with no power off required). Press and release push button. Wait for meter to point to Port full scale. Note that the range remains at the factory default or last user setting until the Starboard end stop is recorded. However, the 'hand' has now been stored. Either switch off to complete hand calibration or continue to next procedure.
4. Turn helm to Starboard end stop. Press and release push button. Wait for meter to point to Starboard full scale. No power off is required and the unit is now working and ready for use.

12 Volt Power supply. Protect with 250mA fast blow fuse.  
(Requirement 10.5 - 16 Volts < 130 mA with 2 x meters driven)

