



Tack COS Instructions

Specification for Software V1.08

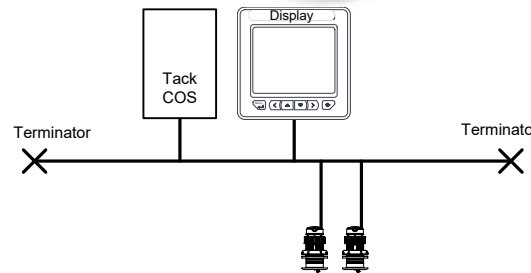
Supply Voltage
9-16Volts

Supply Current
<50mA

Load Equivalency Number
LEN 1

Supported PGN's

59392 ISO Acknowledgement
600928 ISO Address Claim
126208 Acknowledge Group Function
126996 Product Information
128259 Boat Speed
128267 Depth
130306 Wind Data (AWA Only)
127257 Heel output +/- 10 degrees



It is possible to connect more than one Tack COS to a system when using separate Speed and Depth sensors for instance. However, special consideration is required. Only one Tack COS should be connected at a time during initial setting up. Only after each Tack COS has been fully set up can both be connected simultaneously. Should two units be connected accidentally before setting up then you must reset both units and start again.

Installation

For the internal switch to work, the unit must be mounted on a forward facing bulkhead with the label mounted upright and at the top of the unit. If you look forward you should see the label. Align the unit upright as accurately as possible.

Operation

The unit will use its own internal heel sensor unless Apparent Wind is available on the bus. Apparent wind is always used in preference. If the Wind data fails, the internal sensor will take over after 10 seconds.

Setup

The Tack COS set up is automatic, but for the unit to identify which sensor is which, the first Tack COS power up must be with **ONLY the single Port sensor connected** and **ALL other instances of Boat Speed or Depth disconnected (including any processor data, such as B&G H5000 which always outputs Boat Speed!)**. The correct power and terminators must be in place. After power up, spin the Boat Speed paddle or wait for a Depth signal on the port sensor. The Starboard sensor may then be connected. Spin the starboard paddle or wait for the Depth. You can now connect any other speed/depth instances, such as the processor, onto the system. The Tack COS will remember the unique sensor identification of each sensor. If for any reason the sensors are changed or moved, or a mistake is made during setup, the Tack COS will require a reset. Now select 'Tinley COS' as the 'preferred source' on the system/displays. (See system manual)

Reset

There is a reset button under the lid of the unit on the bottom right. To reset the unit, disconnect the Starboard sensor before powering up the system with the reset button held down. After a few seconds, release the reset button and then reconnect the Starboard sensor.

Calibration

Some systems send calibration data to be stored in the sensor. In these systems both sensors will need to be calibrated independently. Using a system display, select each sensor as the 'source' in turn and calibrate that sensor for Speed and/or Depth according to the system manual. When both sensors have been calibrated, select 'Tinley COS' as the 'source' for both Speed and Depth. Note that to help identify each sensor, it often helps to disconnect the sensor/s not being calibrated.

Heel Output

A pseudo 'Heel angle' is output as either 10° (port tack/stbd sensor) or -10° (stbd tack/port sensor). This 'heel angle' is decided by the internal switch or Wind input and can be used to check which sensor will be used.