

Front Panel Information

The front panel label contains a précis of the connection information for the T2 Multiplex Interface. It is not intended as a complete guide; if in doubt, check the System Manual for a more complete explanation of the interface.

Connection to the Instrument System

Power and data communications are provided through the Ockam bus cable. The bus cable connects to the BNC connector on the bottom side of the T2 enclosure.

Mounting the Enclosure

The enclosure should be mounted with the label facing either directly aft or directly forward. The enclosure should also be level with respect to the boat. This is required because the T2 uses an internal heel sensor, and mounting the unit otherwise will adversely affect heel measurement and thus the wind solution.

Status Lights

The T2 Multiplex Interface has two status lights on the front panel. The light next to the NMEA input indicates active electrical connections ONLY, not if the data input is in a valid format. The light marked "Errors" indicates any problems with NMEA data input, or if one of the analog inputs is disabled. The unit is operating correctly if the light stays on solid.

Analog Sensor Connections

The T2 accepts input from a variety of analog wind and boatspeed sensors. Be sure that the correct sensor signature is selected for the appropriate input (S1 sets the boatspeed transducer, and S2 sets the wind sensor). The addition of pull-up resistors or adjustment of the power supply may also be required for some sensors. It is possible to disable the analog inputs using positions "a" and "b" on switch S3 (the 8-position DIP switch). See the manual section regarding the T2 interface if you are unsure of the correct settings.

NMEA Digital Sensor Connection

The T2 accepts input from several sensor types with NMEA or digital output. The T2 accepts input from the following sources: compass, depth, or strain gauge. The strain gauge may output its data in either NMEA "XDR" sentences, or in the Diverse Yacht Services "AX.XX" format. The input is configured using positions "c" and "d" on switch S3 (the 8-position DIP switch). See the manual section regarding the T2 interface if you are unsure of the correct settings.

Heel Sign

Position "f" on switch S3 determines the port/starboard orientation for the built-in heel sensor. The front panel label has an arrow marking the direction for starboard; change the switch to match the installation orientation.

Port and Starboard Boatspeed Transducers

On installations requiring two boatspeed transducers, the T2 will automatically select the correct transducer based on heel. It is essential that the transducers are connected to the correct input, and that the heel sign is set correctly. The transducer signal wire should be connected to the appropriate terminal as marked on the front panel label. Ground and power connections may be shared between transducers. If only one transducer is installed, then the signal wire should be connected to the terminal marked "Port(1)" (terminal 4).

Calibrations

The calibration adjustments for the sensor inputs are located along the lower portion of the T2 Multiplex Interface. Care should be exercised when adjusting the calibrations, as unwarranted adjustment will have deleterious effects on the performance of the instrument system. The wind and boatspeed transducers have base values that should serve as a starting point on new installations. See the system manual for more information regarding the calibration process.