Raymarine

Diagnostic and Setup Application Notes

Products: ST50, ST60, ST80, ST290 Masthead Wind Transducer

Purpose: Onboard or bench diagnostic procedure

Equipment required: Digital multimeter, tools required to gain access to unit

Test data:

Instrument Cable Color	Transducer Cable Color	Measurement	Comments
Red	Red	8 Volts DC	Measurement is taken between red and screen
Screen	Screen	0 Volts DC	Reference point for measurements
Blue	Blue	Variable 2 to 6 Volts DC	Reading taken between screen and blue
Green	Green	Variable 2 to 6 Volts DC	Reading taken between screen and green
Yellow	Yellow	Variable 0 to 5 Volts DC	Reading taken between screen and yellow

Test procedure:

Multimeter should be set to:
1. DC Voltage
2. 20 Volt scale

When testing the system for the voltage measurements listed in the table above, access to the rear of the wind instrument, wind transducer pod (ST80, 290), or junctions within the masthead cable run is required. Care must be taken not to short circuit or break any of the connections. The following procedure should then be followed:

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