



## INBOARD AND STERN DRIVE WATER TEMPERATURE SYSTEM

- To test gauge, voltage from "I" to "G" terminals must be 10-16 VDC. No wire on "S" terminal. Gauge pointer should rest below 120°F. Next, connect the "S" terminal to the "G" terminal (leave "I" and "G" terminals connected). The gauge pointer should rest above 240°F. If the pointer travels from side to side, the gauge is OK.
- The resistance of the sender can be measured to determine the sender's correct operation. Remove wire to gauge. Connect an ohmmeter to terminal of sender and to engine block. Approximate values are:  
75°F (room temperature) = 550 to 750 ohms; 212 degrees = 55 ohms. You will get half these values on a dual gauge sender.
- If sender is shorted (0 ohms), gauge will read above 240°F.
- If sender has infinite resistance (Open), gauge will read below 120°F.
- If the gauge reads lower than expected, was sealer used on the sender threads (see picture)?
- The accuracy of the system (gauge, sender, voltage range) can vary as much as +/- 15° at 180°F.
- Pipe extenders to plumb both a sender and temperature switch (for horn or warning light) from one port is not recommended. The amount of weight extended on the fitting of a vibrating engine could cause fatigue breakage. Also, the sender is removed from water flow and will probably read cooler.
- Teleflex does not offer senders for metric threaded ports.
- Dual Station installations:  
When replacing one gauge in a two station installation, the second gauge may need to be replaced as well. Mixing two gauge manufacturers to one sender may cause an error in both gauges. If one gauge fails the second gauge will read much higher than expected. If the sender fails "open," both gauges will read below 120°F. If the sender fails "short," both gauges will read above 240°F.
- Twin engines - it may be helpful in troubleshooting to switch either the senders or the gauges from engine to engine.
- Every Teleflex Marine gauge can be identified by the part number printed on the side of the housing. Please reference this part number when contacting technical service or replacing the original gauge.

