



Customer Bulletin

Bulletin No: 18-0627
Date: June 27, 2018
Attn: TDT1000 Owners
Subject: TDT Firmware update
Effective: June 2018

TDT1000 Firmware Update

Purpose: AIRMAR is constantly working to improve the performance and capabilities of our TDT1000 Transducer Diagnostic Tester. This update to the TDT1000 firmware, along with the latest updated version of the SensorCheck app will provide enhanced capabilities, several of which are a direct result of our user's requests. In addition to these capabilities, AIRMAR has implemented several bug fixes that will improve performance and reporting.

****NOTE**** This TDT1000 firmware update must be done by attaching the TDT1000 to a Windows based PC via a USB connection.

****NOTE**** Your TDT tester must be updated to firmware release 3.0.0 in order to properly operate with the current SensorCheck app (version 1.20.03 or newer)

Enhancements delivered in this update:

- Ability to read Sense Resistors
 - Airmar installs sense resistors in some transducers for various OEMs. The sense resistors are read by the sounder to properly configure the system to the transducer that is being used.
 - SensorCheck can now test the sense resistor and verify that the resistor value is within spec.
 - Note: New test cables are required to perform the sense resistor check.
 - Contact Gemeco or Airmar EMEA for these new cables:
- Raymarine cables: 33-1310-01(A Series), 33-1311-01(DSM Series), 33-1312-01(11 Pin Connector)
- Water temperature measurement now supports 5k,10k and 20k thermistors
 - 5k thermistors have been used in many Lowrance conventional 50/200kHz transducers
 - 10k thermistors are standard in Airmar transducers
 - 20k thermistors have been used in Silva speed/temp sensors
- Ability to update TDT1000 Firmware from within the SensorCheck App
 - After using the TDTUpgrader to successfully update the TDT1000 firmware to version 3.0.0 via a USB connection to your Windows based PC/TDT Upgrader, all future firmware updates will be possible via SensorCheck and a Bluetooth connection

- Users will now find an UPDATE FIRMWARE button on the SETTINGS page in SensorCheck
- Users will now receive on-screen acknowledgment after submitting transducer test results and when performing database updates

Additional bugs addressed in this release:

- Notes section was too small and cutting off text/notes that people entered
 - Text box has been expanded to allow for more text
 - Depending on screen resolution, this box will be a different size
- Certain transducer's factory test data not showing up on the graph
 - Issue has been resolved; all data will be displayed
- Inconsistently reporting results- In Range on graphs, but Out Of Range on summary screen
 - Issue has been resolved
- History not showing up right away
 - When clicking on history, it could take up to five seconds to load the data if there was no internet connection
 - This time has been reduced to allow faster data loads
- History not saving
 - Issue has been resolved
- Issues installing the TDTUpgrader on Windows computers
 - Driver files are required and are now included in the install package
 - Install instructions have been included in download
 - NOTE: this update only works on PCs. There is no support for MAC OS.

IMPORTANT note regarding future updates to TDT1000 firmware:

The initial update of the firmware MUST be done via the USB connection. Subsequent updates can be done via Bluetooth from within the SensorCheck app. However, due to bandwidth limitations of Bluetooth Low Energy (BLE), the update can take more than 20min. Updating via USB only takes 90 seconds and will still be an option for updating firmware.

Please call 1-803-693-0777 if you have any problems with this installation.

Find the TDTUpgrader files here:

<http://www.airmar.com/TDTUpgrader-1.8.zip>

You'll also find the complete download at our webpage: <http://www.airmar.com/software-downloads.html>

Upgrade your SensorCheck App via the App Store