

Shearwater Teric Firmware v16 Release Notes

VERSION 16 2019.05.27



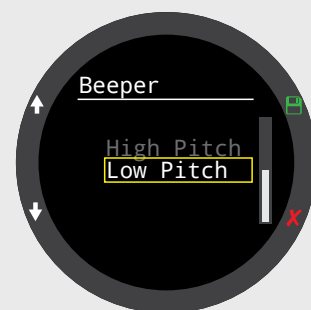
NOTE

This release is recommended for all Teric users. It adds new features and fixes minor issues.

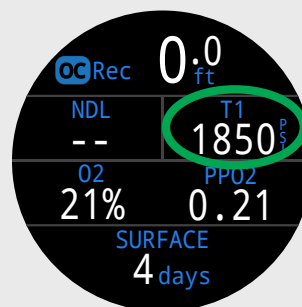
NEW Translated versions. Currently available for:

- 繁體中文 (Traditional Chinese)
- 简体中文 (Simplified Chinese)
- 日本語 (Japanese)
- Español (Spanish)
- other languages will be added once ready

NEW Lower frequency option added for beeper, which may be easier for some users to hear.



IMPROVE In the OC Rec Standard layout the TTS (top-right) location can be replaced by alternate displays.



CHANGE GF99 now displays in yellow when above GF High (and still displays in red when greater than 100%).

CHANGE SurfGF is no longer red when above 100%. Instead, the SurfGF color is based on current GF (GF99), so if the current GF99 is greater than GF High the SurfGF will display in yellow, and in red when greater than 100%.

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CHANGE Changed rules for how MOD and DECO PPO2 limits are applied. Now only uses MOD limit for the lowest O2 gas (and this gas must be less than 50% O2). BO mode only uses the DECO PPO2 limit (never MOD).

CHANGE Changed PPO2/MOD warnings. New behaviour:

- High PPO2 Warning message: only triggered when $PPO2 > (PPO2 \text{ High Limit} + 0.03)$.
- PPO2 color coding: Red when $PPO2 > (PPO2 \text{ High Limit} + 0.03)$ OR $PPO2 < (PPO2 \text{ Low Limit})$. Yellow when $(PPO2 \text{ High Limit} - 0.03) < PPO2 \leq (PPO2 \text{ High Limit} + 0.03)$.
- Gas Colour coding: Red when $PPO2 > (PPO2 \text{ High Limit} + 0.03)$ OR $PPO2 < (PPO2 \text{ Low Limit})$. Yellow when better gas available.
- OC and BO modes MOD Colour coding: Red when $PPO2 > (PPO2 \text{ High Limit} + 0.03)$. Yellow when $(PPO2 \text{ High Limit} - 0.03) < PPO2 \leq (PPO2 \text{ High Limit} + 0.03)$.
- CC MOD Colour coding: Red when $(Dil \text{ PPO2}) > (PPO2 \text{ High Limit})$. Yellow when $(Dil \text{ PPO2}) > (PPO2 \text{ Dil Limit, i.e. } 1.05 \text{ ATA})$

NEW Deco Planner now warns when the gas PPO2 is outside the safe range by displaying the gas in red.

CHANGE Allow reserve pressure up to 2400 PSI /165 Bar like on Perdix.

IMPROVE When switching to BO from CC during a dive, the best gas will automatically be selected. This behaviour is now the same as other products (Petrel, Perdix, etc.).

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- CHANGE** Disabling of vibration motor on low battery has been removed.
- FIX** Fixed SAC calculation issue where pressure increases (which can happen in the real world) were being filtered out of the avg calc, but with an error where the denominator for the average calc was still updated.
- FIX** Fixed issue where a critically low battery shutdown during a dive would cause the unit to cycle back on immediately.
- CHANGE** When shutdown has occurred due to a critically low battery, no longer wakes up due to alarms or timers.
- FIX** Fixed issue where the first page of the BO deco planer result could be skipped if a button was pressed while the calculations were in progress.
- CHANGE** Factory dives will now be labeled as “Factory” (applies to new factory dives only).
- FIX** Fixed issue with not rotating display when put into charging cradle when the compass was completely disabled.
- FIX** Fixed issues with setting compass declination, which was not working.
- IMPROVE** Made the declination editor nicer by showing the raw and adjusted compass headings while editing.
- FIX** Fixed an issue where the log could fail to display under very specific circumstances.

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VERSION 13 TO 15



NOTE

Versions V13 to V15 were not publicly released.

VERSION 12 **2019.01.25**



NOTE

This release was installed on new production, but not otherwise publicly released. No functional changes, just support for minor production changes.

NEW

Added support for alternate Flash memory.

VERSION 11 2019.01.03



NOTE

This release is not a major feature release but is recommended for all users to address a few minor issues.

- NEW** Added support for another alternate OLED driver.
- FIX** Fixed issue where Freedive mode surface interval was not updated correctly after standby mode.
- FIX** Fixed serial number formatting in log opening record and final log record (now matches Petrel formatting).
- FIX** Corrected timing issue that could very rarely result in a single erroneous depth sensor reading. This could show as an incorrect maximum depth in the dive log.

VERSION 10 2018.10.04



NOTE

This release is not a major feature release.

- NEW** Added support for an alternate OLED driver
- FIX** Fixed issue in NDL Planner where turned-off gases would be used if that gas index had been enabled in a previous run of the NDL planner. This only affected the planner and not in-dive calculations.

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VERSION 09 2018.08.16



NOTE

This release is not a major feature release. It contains minor improvements and fixes some issues, mostly related to charging. This update is recommended for all users.

IMPROVE Improved the accuracy of the battery gauge, especially when charging.

CHANGE When battery is low, all watch faces will now force display of the battery gauge icon to alert user of low battery status.

CHANGE The “Low Battery” warning now only appears for 5 seconds, then automatically disappears. Previously required user to clear by acknowledging with a button press, but no longer necessary since battery gauge always shown when in low battery state.

CHANGE In CCR mode, now enforces a 6m (20ft) gap between switch up and switch down auto set point switch depths.

CHANGE Changed rules about how AI tank start and end pressures are determined and how average SAC is calculated. These rules will be applied to Cloud and other products with new releases.

FIX Added new time zones for Adelaide +9:30, Newfoundland -3:30, Burma & Cocos Islands +6:30.

FIX Fixed some corner case behaviour when on charger, especially for third-party chargers.

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VERSION 09 **2018.08.16**

- FIX** Added ascent rate indicator to gauge mode.
- FIX** Fixed an issue where removing the Teric from the charger could lock up the display.
- FIX** Fixed an issue that could cause an “Unknown Reset” message from standby. This issue did not cause any other side effects other than the unknown reset message.
- IMPROVE** Internal improvements to increase production efficiency. No change to end user.

VERSION 07 & 08

Versions v07 and v08 were not publicly released.

VERSION 06 **2018.05.28**

First public release for the Teric was v06.