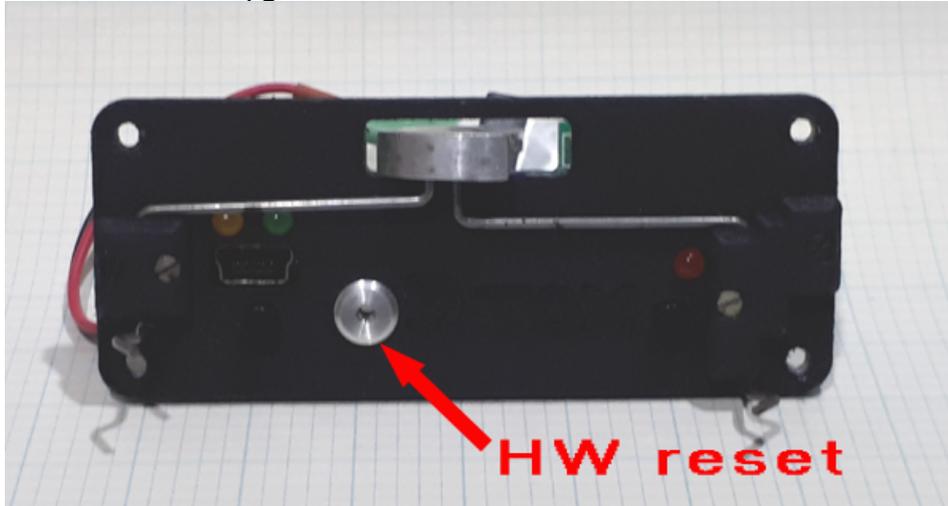# Dtox P-TYPE
UPGRADE

All P-type timers are now supplied in an upgraded format. Also, any P-type returned for service or repair are converted to the the upgrade format.

The visible difference between the original and upgrade forms is the absence of an on/off switch which has been replaced with a hardware reset port. The removal of the on/off switch removes a point of physical failure.

The new firmware now places the timer in a deep sleep mode after a period of inactivity. In this state the timer consumes almost negligible current and a battery will last for a significant time, weeks if not months. Once the new firmware is loaded in the timer additional functionality is as indicated in the description below, which should be read with referenced to the descriptions in the user manual.

If the timer has been inactive for a period of 5 minutes, it will enter a deep sleep mode. To awaken the timer all that is required is to press either of the buttons. If the reset button was pressed the timer will enter the 'park/idle' state, if the trigger button was pressed the timer will enter the 'armed' state and be ready for launch. The timer will NOT enter this mode during a timing sequence!

To put the timer in the deep sleep mode without waiting for the full 5 minutes, press and hold the reset button. The heart beat LED will begin to flash, then after two seconds will flash at a faster rate. Wait until the flashing stops and the LED is continuously lit then release the button and the timer will be in the deep sleep mode. When in deep sleep mode the heart beat LED does not blink.

If the timer becomes totally unresponsive at any time, insert a small pin (paper-clip) in the HW reset port and press the switch beneath.. If the battery is not flat this will reboot the processor.

All other functions and programming features are unchanged and are as indicated in the user manual

Altimeter note

If you are using any of the altimeter functions it is advisable to use the reset button to awaken the timer before attempting to launch your model. If the trigger button is used to awaken just prior to launch, the timer may not have enough time to calibrate the altimeter correctly and any stored data will will not have a proper ground reference.

Also note that if the failsafe option is selected, it won't work while the timer is in the deep sleep mode.