Ref: FAQ0404	Version: 1.0
Title – How external battery packs work	
Made By: AB 08/06/17	(Issue 1)

Modus operandi for new HWM logger external battery packs

Since both the internal and external batteries are now the same voltage (6.7-7.2V) you cannot tell if the external pack is connected or not. Both the internal and external packs are in parallel so they deplete at the same rate (i.e. it is no longer the case that the external one depletes first while preserving the internal one).

However there is a mechanism whereby when the batteries are depleting, at a point where they are 'struggling' to maintain call in at the configured rate, the external battery is electrically detached and the logger reverts to twice daily call in, which, as before would be the trigger for battery change.

The logger low battery alarms still work the same way as before whether the logger has an external pack connected or not. The loggers measure the voltage under modem load when a call in is being made and a low battery alarm is sent when the logger sees 30 consecutive battery readings less than 5.8V. At 5.2V the logger sends another alarm and stops calling in. Logging will continue.

Note 1
If you connect a new battery box to an old Multilog part number RDL662……..then you have to check the box in the Radwin / IDT software. The box only appears when the software (Radwin / IDT) is connected to a logger which requires this setting. If you forget to tick the box the logger will only call in twice per day even if you have set it for more call ins.
For Multilog2's, the new part number will be ML/62…….. and this will not require you to tick the box.

Note 2
For LX's this applies to all units with the part number like R6862/6100……. The new Unilog PCB based LX2 is denoted by part number LX/61/……. and this will not require you to tick the box.

Document History:

Edition	Date of Issue	Modification	Notes
1st	08/06/17	Release	

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