



Firmware release notes for Rev B & C Hardware

B & C: 9.1 - 17/04/08

- Specification change: Changed the time offset sign (Indicates offset from UTC) in IEEE1344/ C37.118 Extensions in accordance with specification amendment.
- Bug Fix: AFNOR S87-500 extensions error in 10's digit of month fixed
- Improvement: Free-wheel stability improvement
- Improvement: Display change to allow two digits in firmware version number

B & C: 9.0

- Bug fix: Interrupt race condition caused spurious errors on AM-IRIG output. This affected both C7 and C8 versions. Fix is to check specifically for race.

B & C: 8.0

- Bug fix: If time offset is -ve minutes only, display of offset was +ve, and calculation of local time could be incorrect.
- Bug fix: New Out of Sync function prevents occasional errors caused by port switching due to configuration and GPS communication operating on the same port.

B & C: 7.0 - 23/06/04

- New Feature: New configuration option to "Suppress all outputs when out of sync"
- New Feature: New configuration option to "Force sync on". This new option allows for arbitrary time to be set and the clock will operate as if it were "In sync" (including the sync relay) even without an antenna attached (NTS will operate also). The GPS LED on the front panel will continue to show the true antenna/ sync state of the clock.
- New Feature: Added ability to configure the Ethernet settings using the configuration tool.
- Improvement: Modified "antenna fail" check to only check the antenna if no satellites are being tracked - allows low current-drain antennas to be used for testing
- Bug fix: Corrected DST transition processing in leap years
- Bug fix: Eliminated spurious O/P of Gj message during ASCII O/P modes
- Bug fix: Ha message processing adjusted to correct indexing
- Bug fix: Gj message processing adjusted to correct indexing

B & C: 6.0 - 28/02/03

- New Feature: Added Tekron Serial String "C"
- New Feature: option to output UTC time on the serial string outputs
- New Feature: Add option to output UTC time on the DCF-77 outputs
- New Feature: Add option to output UTC time on the IRIG-B outputs
- New Feature: Replaced Fixed pulse o/p option with DCF-77 time code
- New Feature: Added more screen display options
- New Feature: DST setting "fixed date method" added
- Improvement: Added ability to allow/disallow access to internal GPS from PC (default setting is access allowed)
- Improvement: Added auto-restart of Ea broadcast (guards against @@ea turn-off from PC)



B & C: 5.0

- New Feature: Added Tekron Serial String "B" (for PWRM meter applications)
- New Feature: Added option to Invert signal on P2, P3 and P4-pin 1 outputs

B & C: 4.0

- Improvement: Modified DST configuration to allow for setting on the "last" week day of month.

B & C: 3.0

- New Feature: IEEE1344 extensions option added

B & C: 2.0

- New Feature: Added Tekron Serial String "A" protocol
- New Feature: Added Tekron Serial String IRIG-J plus yy year characters and with 8-bit no parity.

B & C: 1.0

- New Feature: Added support for NTP/ SNTP time server option
- New Feature: Push-button processing was also introduced in this version, to allow for NTS setup control and display selection.
- Bug fix: A bug in the MONTHD indexing was uncovered by this change:- A fix was made to correct the MONTHD index problem on 06 Feb 2002. The only File affected was IRIG-B.ASM, in which three bytes changed value from \$EC to \$EB. Unfortunately, new EPROM burns required (see ISSUEBC2)!!