Wharton 4000x Series Firmware/Hardware Changes from Jan 2022

Wharton have had to implement some hardware changes to their 4000x series display clock range due to component shortages that have arisen because of the recent pandemic.

Operation of the 4000x series should not change but there is a rewrite of the user manual which should be available shortly which highlight a small but significant 4000N/NE feature which is explained below:

4000X stopwatch master/slave function available in firmware from April 2022.
Firmware cannot be up upgraded on 4000NE clocks manufactured before Jan 2022.

Stopwatch Master/Slave:
Function allows a 4000N/NE clock, connected, and synchronised to a network to become a 'Stopwatch Master'.

Other clocks on the same network can be set as a 'Stopwatch Slave', (max no. of clocks yet to be determined but the response at this time is several).

The 'Stopwatch Master' displays time until the stopwatch is initiated and then stopwatch control via the IR RC100 Remote Control, (N and NE series), or 496E hardware stopwatch controller/external voltage control,
(NE series clock only without external synchronisation card or 406 temperature control fitted), is initiated and display switches according to how the stopwatch features have been set on the 'Stopwatch Master' clock.

The 'Stopwatch Slave' … or slaves, displays time until the stopwatch is initiated on the 'Stopwatch Master'.
Once stopwatch initiated on the master, the slaves will display the stopwatch operations as displayed on the 'Stopwatch Master'. The slaves do not have to have the stopwatch setup set up other than being set as a slave.

All instructions from master to slaves is via the network so no additional cabling between the clocks is required.

Set up instructions: (to appear in the post March 2022 4000x manual when available)

	Using RC-100 remote
Master Stopwatch setting :	press up - clock will display Fu xx
	press + untill clocks shows Fu SS
	press up - clock will display SS xxxx
	press + untill clock shows SS net
	press up - clock displays SA xx
	Set up stopwatch as per page 15 in the 4000x user manual
Slave Stopwatch setting :	Press up - clock will display Fu xx
	press + untill clocks shows Fu SS
	press up - clock will display SS xxxx
	press + untill clock shows SS NSLA
	prees up - Clock is now Slaved to the master Stopwatch

From Gary Amour, Wharton Clocks, emails dated 24 March 2022 14:55 & 25 March 2022 11.20

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