ENGINEERING CHANGE NOTIFICATION FORM

ECN: 80200577	REV: 1	ISSUE DATE: 4/28/2019

TYPE OF CHANGE: Firmware Modification

DETAILED DESCRIPTION OF CHANGE:
Firmware release 2.42 for FireFly-II related models includes fix for assigning known default characters to fields with NULL characters in NMEA messages.

REASON FOR CHANGE:
Bug fixes and functionality improvements.

PRODUCTS AFFECTED:

Firmware Version	Model
Firmware 2.41 and previous	FireFly-IIA
	FireFly-1C
	ULN-1100
	ULN-2550
	LC_1x1 Single Oven (GPS-500)
	LC_1x1 Double Oven
	Mini-JLT

Notes:

AVAILABILITY:

MILESTONE	DATE
ECN release for firmware release files	4/28/2019

Release 2.42 for FireFly-II related models provides the following improvements:

Issue 1:

Firmware 2.41 and previous will have NMEA buffer(s) with all "0" values if NMEA message(s) with incorrect checksum is received or no NMEA message(s) is received at certain second of time. The firmware will output incomplete $GPRMC message due to NULL ('0x0') value in RMC status field provided by the empty NMEA buffer.

Resolution:

Firmware 2.42 fixes this issue by correcting NULL characters to known default characters such as 'V', 'N', and 'E' in NMEA buffers before generating NMEA messages.

REFERENCE DOCUMENTS/ATTACHMENTS:

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