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October 26th, 2020

Subject: In-Pulse II, 733 and 766 Controls Product Support Statement

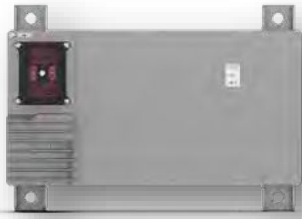
The In-Pulse II injection control module, 733 and 766 engine control module have been important products to Woodward in support of the large engine market. The In-Pulse II, 733 and 766 controls have been used for a whole generation of high- and medium speed gas, dual fuel, diesel engines.

Since the introduction of the LECM platform, specifically due to the ability to buy it as a stacked or a stand-alone configuration, functional enhancements of the LECM EID module, and the regulatory requirements such as IACS UR E10 rev.7 marine requirement and ROHS, there have been no new applications being developed for the 733, 766 and In-Pulse II. Current 733, 766 and In-Pulse II business are in support of the already existing control systems in the field. These application have been identified and are actively being pursued to enhance or upgrade to the LECM platform.

Woodward has produced and supported these product lines for many years and will continue to offer new sales and support per below support schedule. This Product Support Statement is valid for all 733, 766 and In-Pulse II based top level applications.

Most of the existing In-Pulse II and 733 application are transitioning into an LECM based next generation control system, whose architecture is providing a higher level of integration. Basic In-Pulse II driver functionality is often integrated in an LECM EID module or as a 2- or 3-stack LECM with “mix-mode” EID configuration in combination with the combustion feedback module for either knock detection or in-cylinder pressure monitoring and diagnostics (RT-CDC).

The 0-200mA output of the 733 is not supported by LECM. LECM can support a stand-alone converter module that converts 0-200mA to 4-20mA or 0-5V signals. Additionally, Woodward product lines such as Flex500, and 2300E, offer the I/O functionality, communication channels and software capability to support the needs of 733 control.



EID Stand Alone



LECM 2-stack (MAIN + EID)



LECM 3-stack (MAIN + EID + AUX)

This Product Support Statement is being released to support and allow appropriate time to develop and validate LECM based alternative solution, with a strong emphasize on LECM platform and modularity to enhance the current engine control systems. At time of release of this Product Support Statement there are few known component obsolescence issues, and these components are procured through last time buy to support the below schedule. Also note, due to IACS UR E10 rev.7 requirement, the existing marine certifications would expire by December 2021.

Please contact Woodward or your supplier to discuss possible replacement.

Now - Oct 1st, 2023:

- Unlimited New Sales
- Unlimited Repairs

Oct 1st, 2023 - 2025:

- Unlimited Repairs
- Replacement Exchange with service stock

Oct 1st, 2025 - 2030:

- Repairs based on parts availability
- Replacement Exchange with service stock



Note – Component obsolescence from electronic manufacturers can present a challenge to post-life support plans. Woodward strives to hold inventory or look for alternative parts when the components we use are no longer available. However, there are times when components simply cannot be obtained and where sufficient last-time buys cannot be made. Unfortunately, in these cases Woodward cannot guarantee the rationalization support plan.

Yours Sincerely,
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Woodard, Inc.