

October 20, 2016

SUBJECT: Update: Support for the 505, 505E, & 505 Enhanced product lines

Woodward introduced its 505/505E controller product line in 1988, which has grown to become the standard for industrial steam turbine OEMs and users globally. Since that time, Woodward has continued to invest in and improve this product line in the form of new improved hardware, control algorithms and user interfaces. This product line has enjoyed much success in the market and continues to be an important part of Woodward's control offerings. Woodward is dedicated to providing you with the information and tools necessary continue to operate your existing controller or transition to one of the following new improved models:

Existing Model Name	New Model Name	Application
505	505D	Single valve steam turbines
505 Enhanced	505D	Single valve steam turbines
505E	505XT	Single valve or single extraction turbines and additional I/O (via LinkNet-HT modules)
N/A	Flex 505	Single valve or single extraction turbines with dual redundant switching capability, custom PLC programming and additional I/O (via LinkNet-HT modules)

It is recommended that existing 505, 505 Enhanced and 505E users plan appropriately for migration to the new and improved models to experience the related control and operational improvements. With the exception of a few small wiring differences and improved terminal blocks, these new 505 control models are designed be a direct replacement for the existing 505 controllers. A 505 "drop-in" replacement harness is available that eliminates the need for re-wiring. In addition, these new controllers are built off the same field proven software program as the original 505 controllers, enabling users to easily configure them to function and perform exactly like the older 505 control models if desired.

Customers using the 505 Enhanced in dual-redundant applications should contact Woodward for options using a small MicroNet with Woodward Steam programming.

As post production support is an important part of Woodward's tier-one service and to 505, 505E, & 505 Enhanced users globally Woodward has developed the following product support plan to ensure long term factory support throughout the life of your product and during the migration process:

February 20, 2015:

- New 505D models released
- Begin migrating all 505 and 505 Enhanced orders to the new models (except for dual-redundant installations)
- Continued availability of old 505 and 505 Enhanced models for use as spare units for existing installations

February 8, 2016:

- New 505XT models released
- Begin migrating all 505E orders to new 505XT models
- Continued availability of old 505E models for use as spare units for existing installations

February 15, 2017:

- New Flex505 models scheduled release
- Continued availability of old 505 Enhanced models for use as spare units for existing installations

February 15, 2018:

- Sale of old 505, 505E, & 505 Enhanced models for new applications discontinued
- Continued availability of old 505, 505E & 505 Enhanced models for use as spare units for existing installations
- Unlimited repair of old 505, 505E, & 505 Enhanced models
- Service exchange of old 505, 505E and 505 Enhanced models with available stock
- New 505, 505XT & Flex505 replacement models available

February 15, 2020:

- Sales of all old 505, 505E, & 505 Enhanced models for use as spare units discontinued
- Unlimited repair of old 505, 505E, & 505 Enhanced models
- Service exchange of old 505, 505E and 505 Enhanced models with available Woodward stock
- New 505, 505XT, Flex505 replacement models available

February 15, 2023:

- Limited repair of old 505, 505E and 505 Enhanced models based on parts availability
- Limited service exchange of old 505, 505E and 505 Enhanced models with available Woodward stock
- New 505, 505XT, Flex505 replacement models available

February 15, 2028:

- New 505, 505XT, Flex505 replacement models available

Electronic parts obsolescence presents a challenge to post-life support plans. Woodward makes last time buys, holds inventory and utilizes alternative parts to maintain support. Despite these efforts, there are times when component obsolescence makes it impossible to continue support. For this reason, Woodward cannot guarantee the support dates indicated above.

Regards,



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