

June 8, 2020

**SUBJECT: 5009 Product Support Statement**

The 5009 MicroNet family is Woodward's standard triple-redundant fault tolerant control for critical steam turbine applications. This product line is based on proven MicroNet TMR hardware combined with a standardized steam turbine control application. There is no custom programming required; the unit is configured to match the specific requirements of the application. The GAP application software is based on 30+ years of steam turbine control experience with many thousands of units in operation.

The original MicroNet TMR and 5009 date back to 1997. The improved 5009FT version based on the 5200 CPU and MicroNet Plus technology was released in 2009. The current version is 5009XT, released in 2019. The XT version utilizes core steam control software from the highly successful 505XT, and uses the latest versions of the MicroNet TMR CPU and MicroNet I/O modules to insure the longest possible support life. The 5009XT has a number of enhancements including cybersecurity, inexpensive RemoteView HMI option, and CANopen for networking Woodward valves and actuators.

Woodward has a long and successful track record of supporting our industrial controls systems for many years despite shorter and shorter life cycles in the electronics component industry. Wherever possible, Woodward strives to keep spare modules in production for at least 5 years after the end of normal production life, and to support repairs for at least 10 years after normal production life. This is done by a combination of component substitution, partial redesign and buying stock of obsolete components. Sometimes this becomes impossible/impractical due to factors beyond Woodward's control, in which case Woodward offers alternatives that replicate the capability of the original system.

The current status of the 5009 family is summarized below:

Original 5009

040 CPU – Repair only  
KPS – Spares and Repairs available  
HDA Analog – Limited Spares for 040 customers, Repair  
HDD Discrete – Limited Spares for 040 customers, Repair  
HD Combo – Spares and Repairs available  
2Ch Act (optional) – Spares and Repairs available

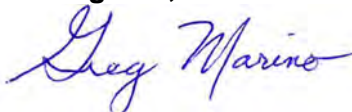
5009FT (Spares and Repairs available, do not use on new installations)

-1037 CPU – Spares and Repairs available  
-1237 CPU – Spares and Repairs available  
KPS – Current production version, Spares and Repairs available  
HDA Analog – Repair or replace with current Smart Plus version  
HDD Discrete – Repair or replace with current Smart Plus version  
HD Combo – Spares and repairs available  
2Ch Act (optional) – Current version, Spares and Repairs available

5009XT (Current version):

Utilizes 5466-1347 CPU and Smart-Plus I/O. Approved for new systems, spares and repairs.

**Best Regards,**



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