

DATE: August 15, 2012

SUBJECT: EM140 with EM Digital Driver System

Woodward recognizes that excellent and long term product support is critical to customers in our compressor, steam turbine and gas turbine markets. Woodward continues to invest heavily in product lines for these markets to ensure our market success and longevity. As long as our customers are buying significant quantities of any product line, they will continue to be fully supported.

Woodward has a long and successful track record of keeping product lines available for 10-15 years and longer, even though many of the original electronic components have gone obsolete in that same time period. In many cases we introduce new models with additional functionality to extend the life of a product line. In other cases we invest in inventory of obsolete parts or minor product redesigns to use alternate components.

There are times when Woodward will eliminate certain product line part numbers. This may be due to the availability of higher performance alternatives, or simple unavailability of electronic components. In these situations, Woodward supports its customers with either direct replacements or functional replacements.

- Direct replacements drop into older systems with no modifications.
- Functional replacements offer similar functionality but may require additional modifications such as software updates or replacement of additional modules.

When a product is "Rationalized" (end of life for new applications) with no direct replacement, Woodward provides an extended support plan for its customers. Typically Woodward announces the Rationalization a year in advance to give time to design the new component into new applications. Upon this notification, the following support plan will be followed:

- Years 0-1 = Unlimited product line sales, spare units, related components/modules, and repairs
- Years 1-5 = Unlimited spare units, related components/modules, and repairs
- Years 5-10 = Limited repairs based on parts availability, product Replacement/Exchange with available service stock units

Due to the nature of electronic components, Woodward is often notified of last time buys for various components. Woodward strives to hold inventory or find alternative parts when electronic components are discontinued. However, there are times when components can simply not be obtained and where sufficient last-time buys cannot be made. In these cases, Woodward cannot always guarantee the rationalization support plan.

Woodward's EM Digital Driver and EM 140 Actuator System have experienced excellent market success since its introduction in 1998, providing precision control of key gas turbine systems. While the EM140 actuator is still available for purchase, the EM Digital Driver entered a rationalization phase where it will be available for spares but not for new installations starting Jan. 1, 2014.

Woodward introduced the next generation driver, the Digital Valve Positioner (DVP) in 2005 to support new communications options and to control higher voltage electric actuators. Since June 2010, Woodward has released additional DVP configurations to support the preferred actuators/valves previously supported by the EM Digital Driver. The EM140 Actuators are one of the last remaining products to be qualified with the DVP Driver. Once this final qualification occurs, the EM Digital Drivers will be inactivated and not subject for new sales.

The transition from EM Digital Driver to DVP Driver in new turbine OEM packages is straightforward in most situations. DVP Driver information can be found in product specification 03376, or by contacting your account manager. The DVP Driver requires no changes to the supported valves themselves. Gas Turbine packagers currently utilizing the EM Digital Driver in their packages should plan the transition to the DVP Driver to meet these dates.

The transition from the EM Digital Driver to DVP in existing applications should be evaluated carefully to verify that the interface from the control system to the DVP is not affected. There are differences in communication options between the driver platforms. DVP Driver information can be found in product specification 03376, or by contacting your account manager.

Woodward understands the EM Digital Drivers are used in critical turbine packages and will support these field units with spares and repairs for an extended period. Although some electronic components of the EM Digital Driver are no longer available from the component manufacturers, Woodward holds inventory of these components to support the fielded units.

The support plan for the EM Digital Driver is set based on the expected transition to DVP and demand for spares.

- 2014 – 2016 = Availability of Spares and Repairs
- 2017 – 2022 = Repairs (based on available parts)
- 2023 – 2032 = Replacement/Exchange with Service Stock if available

For reference, the transition from EM Digital Drivers to DVP will primarily affect the following EM Digital Driver designations:

WG Part Number	Description	Primary Usage
8200-177	EM Digital Driver, Single Feedback	EM35MR/3103 Gas Valves, EML100/3151A Water Valves EM35MR/3171 Gas Valves
8200-176	EM Digital Driver, Dual Feedback	EM35MR/3103 Dual Resolver Gas Valves EM35MR/3171 Gas Valves
8200-314	LQ Digital Driver, Dual/Single Feedback	LQ25, LQ25T, LQ25BP Liquid Valves
8200-169	EM Digital Driver (120 VDC)	EM140 Actuators

NOTE - This announcement does not affect the older drivers previously rationalized (e.g., EM35 Digital Driver, EM35 Analog Drivers). Separate support statements are available for these products.

NOTE - The GS/LQ Driver (9907-135) has already been inactivated and replaced with the DVP for those applications.

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