

October, 30, 2019

SUBJECT: Product support statement for P-Series & PISC*

* ProAct Integrated Speed Control (PISC): the statement is application for PISC used in positioner/ actuator applications only. Statement is not applicable for PISC used in speed control function applications.

The ProAct Gen2 smart integrated actuator is an important product line for Woodward. Woodward has produced and supported P-series and PISC* product line for many years and will continue to offer new sales and support of this product line in the future.

Due to market demand for ROHS certification on the ProAct product line, Woodward plans to release the next generation ProAct Generation 3 actuator (24-pin connector variant) that would be backward compatible and meet ROHS, and marine compliance.

The ProAct Gen3 actuator will offer a more accurate position sensor, and hosts a much powerful processor core capable of implementing latest software requirements.

This support statement does not address the ProAct Gen3 equivalent of ProAct Analog, Digital Plus, P-Series FL (Flying Lead) position control or PISC* used as speed control. Later releases of ProAct Gen3 will address these product variants.

Table below provides the list of ProAct Gen3 general market part numbers that can be used to replace the PISC* and P-Series Actuators.

PAG 3 Part Numbers	Part Number Description
8404-302	ACTUATOR - PROACT GEN3, MODEL II (GENERAL SALE)
8404-303	ACTUATOR - PROACT GEN3, MODEL III (GENERAL SALE)
8404-304	ACTUATOR - PROACT GEN3, MODEL IV (GENERAL SALE)

Table 1: ProAct Gen3 Positioner General Market Part Numbers

The ProAct GEN3 actuator is designed to be backward compatible with the P-Series and PISC* as much as possible and designed to have improve functionality when possible.

Table 2 shows the comparison of some of the key functions of P-Series vs ProAct Gen3 positioner.

Features	ProAct Gen2 P-Series	ProAct Gen3 Positioner
ROHS	No	Yes
Marine	No – Only valid for Digital Plus	Yes – all ProAct variant, including ProAct Gen3 Positioner (24-pin connector version)
Position Accuracy	<+/- 1% of full stroke at 25°C after calibration and +/- 1.5% linearity.	<+/- 1% of full stroke over -40°C to 85°C including linearity.
Communication	RS-232 serial port for using service tools or loading software. CAN channel for customer interface.	Two CAN ports – one with higher rate optimized for service tool usage and one optimized for command interface with adjustable rate.
Discrete Input	Discrete inputs to be 'ON' above 7V and 'OFF' below 4V.	Operates within a 5V range, can be pulled low, can be pulled high, and can go to a known third state with open-wire. Discrete inputs are all surge-rated so they can be connected directly to the battery. See product spec sheet for details.
Discrete output	Low side (P-Series), High side (Digital Plus)	All ProAct Gen3 variants offer both Low Side and High Side (Software Configurable)
Analog Input	Same	Same
Analog output: intended to be an indicator of shaft position or alternatively, command input. It is not meant to be a controlling driver output	Same	Same
PWM command Input	Low Side and Push Pull with fixed internal pull up resistance (circuit population).	SW Configurable between Push Pull or Low Side. Push Pull threshold is customer configurable as 0-5V or 0-12V.
Power Consumption	Same	Same
Operating Parameters		Will match ProAct Gen2 version. Modifications available upon request.

Table 2: P-Series vs ProAct Gen3 Comparison

The P-Series and PISC* will be slowly phased out. The support schedule for the P-series and PISC* is below.

Woodward does not recommend to use any P-Series or PISC* for actuator applications for new designs or upgrades since the product is in the last stage of the product lifecycle.

Woodward recommends ProAct Gen3 Actuators for new designed applications, or product upgrades.

Please contact Woodward, OEM supplier or Woodward Channel Partners to discuss this product support statement in more detail.

Now - Oct 1st, 2024:

- Unlimited New Sales
- Unlimited Spare Modules
- Unlimited Repairs
- Replacement Exchange with service stock

Oct 1st, 2024 - 2027:

- Unlimited Spare Modules
- Unlimited Repairs
- Replacement Exchange with service stock

Oct 1st, 2027 - 2029:

- Limited Spare Modules based on part availability
- Unlimited Repairs
- Replacement Exchange with service stock

Oct 1st, 2029 - 2031:

- Repairs based on parts availability
- Replacement Exchange with service stock
- Replacement product utilizing same algorithms and logic where applicable



Figure 1: ProAct Gen3 Positioner (24 pin connector version)

Yours Sincerely,

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