

2301E-ST SPEED CONTROL FOR SMALL STEAM TURBINES

The 2301E speed controls were introduced by Woodward in 2012 to replace the popular 2301D, which was made inactive when we could no longer get the parts to build them. (See page 2 for reprint of the 2301E product announcement.)



The latest addition to the 2301E family, the 2301E-ST, is specifically designed to work on single inlet steam turbines driving generators, pumps, and compressors. In addition to all the features of the standard 2301E control, the ST version has redundant speed inputs and three turbine starting modes.

The 2301E-ST performs the core control and protection functions of a small steam turbine package. The application software is field configurable, allowing it to be configured and modified to meet site-specific requirements. Modbus communications also allow easy interface with a package PLC or plant DCS.

The control can be ordered with a hazardous location chassis (p/n 8273-1014) or an ordinary location chassis (p/n 8273-1013).

Click on the links below for more info on our 2301E and 2301E-ST speed controls.

[2301E web page](#)

[2301E-ST web page](#)

Product Specs

[2301E Product Specification 03404](#)

[2301E-ST Product Specification 03407](#)

Tech Manuals

[2301E Manual 26641](#)

[2301E-ST Manual 26694](#)

Other Documents

[2301E Presentation](#)

[2301D Product Support Statement](#)

PRODUCT ANNOUNCEMENT

Woodward Enhances Popular 2301D Load Sharing Speed Controller

Component obsolescence is an ongoing challenge for every manufacturer. When Woodward could no longer obtain critical components for its popular 2301D™ controller, the company capitalized on the opportunity to not only redesign the product with readily available components, but to enhance it with new features.



The new, drop-in replacement 2301E™ controller is backward compatible with existing 2301D products, including the same footprint and mounting configuration. The new controller insures the ongoing availability of a proven, versatile product with enhanced features. Enhancements include: separate RS-232 and RS-422 serial ports, both with 9-pin connectors, additional status LEDs for power and RS-422 communications, fault data logging capability with 16 seconds of data collected every 10 milliseconds on the event of a shutdown, peak speed and load detection, and a low-current PWM output for driving Woodward's L-Series™, F-Series™, P-Series™ and PISC™ actuators. The 2301E's new terminal blocks accommodate additional I/O, with a majority of the terminals located in the same position as the 2301D models. And, it carries major compliance certifications. For more information, including Product Specification 03404, visit www.woodward.com.