

9 August 2013

**SUBJECT: Product Support Plan for 2300D™ and 2301D™ Controls**

The 2300D/2301D line of controllers is very important to Woodward and it has achieved broad market acceptance. Due to parts obsolescence in the 2300D and 2301D, we completed a redesign project to extend the useful life of this line of controllers and released the 2300E™ and 2301E™ versions in 2012. The 'E' versions were designed as drop-in replacements for their "D" predecessors. See details below regarding the differences in the 2300E and 2301E (Attachment A), as well as the list of replacement part numbers (Attachment B).

As long as the 2300E/2301E product line is successful in the marketplace, Woodward will fully support and actively sell it. It is currently envisioned that this product line will be successful and actively sold for at least the next 10 years.

**The purpose of this product support plan update is to notify customers that the 2300D and 2301D products have reached their end of life and will be inactivated December 1, 2013.** The only exception is the 2301D-ST (item number 8273-128) which will continue to be produced until its replacement is launched.

Customers are encouraged to contact their Woodward account manager for any assistance in fully transitioning to the 'E' version.

**Product Support Policy:**

Due to the unavailability of key components used in the manufacture of the 2300D and 2301D, Woodward will inactivate the part numbers as shown in Attachment B and provide the following support:

Years 0 - 5 Post Production: Repairs and Spares (based on available parts) for the years 2013 to 2018

Years 6 - 10 Post Production: Repairs (based on available parts) for the years 2019 to 2023

Years 11 - 20 Post Production: Replacement/exchange with available service stock (no repairs). Availability of design drawings such that a customer can produce the part themselves (with signed "proprietary drawing and assumption of liability" release agreement) for the years 2024 to 2033

Parts obsolescence from electronic manufacturers can present a challenge to post-life support plans. Woodward strives to hold inventory or look for alternative parts when components reach their end of life. However, there are times when components cannot be obtained and where sufficient last-time buys cannot be made. In these cases, Woodward cannot always guarantee that we can maintain the rationalization support plan.

Best Regards,

Steve Malone  
Product Line Manager

**For Support:**

End users should contact their local distributors. See [www.woodward.com/directory](http://www.woodward.com/directory)

OEMs and Sales Channel Partners should contact the Woodward location near them.

Brazil – Tel +55 (19) 3708 4800

China – Tel +86 (512) 6762 6727

Europe – E-mail [HelpDesk.Europe@Woodward.com](mailto:HelpDesk.Europe@Woodward.com)

India – Tel +91 (129) 4097100

Japan – Tel +81 (43) 213-2191

North America – E-mail [EngineHelpDesk@Woodward.com](mailto:EngineHelpDesk@Woodward.com)

**Changes:**2300E and 2301E

- Minor changes to wiring terminal type and spacing. See Attachment A for details
- Greater processing power and memory
- Separate RS-232 and RS-422 serial ports – both with 9-pin connectors
- Additional status LEDs (power and RS-422)

2300E only

- CAN channel supporting CANopen™ for LINKnet HT™, Woodward actuators, and other CAN-capable devices
- Second magnetic pickup speed input

See Attachment B for the 2300D/2301D part numbers that are replaced by the ‘E’ version.

### Attachment A – Wiring Terminal Changes

The terminals are changing from the current lever type spring cage connector to a spring cage connector that does not have a lever.

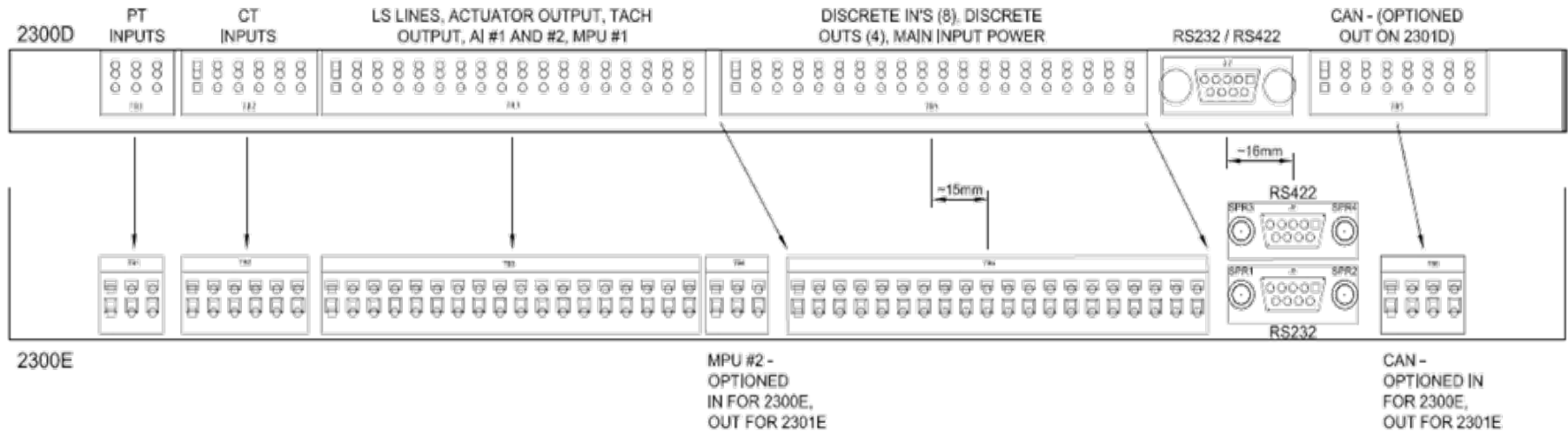
#### New Terminal Type:



Due to the addition of new I/O in the 2300E model, the terminal spacing on both the 2300E and 2301E will change slightly from the 'D' versions:

- The PT, CT, Actuator Out, Analog In, and 1st MPU input connections are not moved.
- The Discrete In, Discrete Out, and main power input connections are moved to the right approximately 15 mm.
- The RS-232/RS-422 port moves to the right approximately 13 mm.

#### Connection Spacing Diagram:



**Attachment B – Part Number Mapping**

2301D Product Line			2301E Product line	
Upper Level P/N	Status	Extended Description	Replacement P/N	Replacement Extended Description
8273-101	I	2301D DIGITAL LOAD SHARE AND SPEED	8273-1011	2301E - ENGINE LSSC, 24VDC INPUT, ORDINARY LOCATION
8273-138	A*	2301D-EC LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, WITH MODBUS, ORDINARY LOCATION		
8273-140	A*	2301D LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, ORDINARY LOCATIONS		
8273-501	A*	2301D LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, NORMAL LOCATION		
8273-505	A*	2301D-EC LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, WITH MODBUS, NORMAL LOCATION		
8273-1003	I	2301D		
8273-135	I	2301D, CSA HAZARDOUS LOCATION	8273-1012	2301E - ENGINE LSSC, 24VDC INPUT, HAZARDOUS LOCATION
8273-139	A*	2301D-EC LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, WITH MODBUS, HAZARDOUS LOCATION		
8273-141	A*	2301D LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, HAZARDOUS LOCATIONS		
8273-503	A*	2301D LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, HAZARDOUS LOCATION		
8273-507	A*	2301D-EC LOAD SHARING AND SPEED CONTROL, 24VDC INPUT, WITH MODBUS, HAZARDOUS LOCATION		
8273-1000	A*	2301D LSSC		
8273-128	A	2301D-ST / STEAM TURBINE CONTROL	8273-1014	2301E-ST - STEAM TURBINE LSSC, 24VDC INPUT, HAZARDOUS LOCATION <b>(Not released)</b>
8273-136	I	2301D ST, CSA HAZARDOUS LOCATION		
8273-137	I	2301D-ST / STEAM TURBINE CONTROL		
8273-127	A*	2301D-GT/GAS TURBINE CONTROL	—	2301E-GT - GAS TURBINE LSSC, 24VDC INPUT, HAZARDOUS LOCATION <b>(Product line is being inactivated due to low sales volumes)</b>
8273-1002	A*	2301D GT		
2300-059	A*	ORDINARY LOCATION 2300 HARDWARE	8273-1017	2300E - HARDWARE ONLY, ORDINARY LOCATION
8272-854	I	2301D DIGITAL LOAD SHARE AND SPEED, (8273-101 WITH MODIFIED SOFTWARE)		
2300-061	A*	HAZARDOUS LOCATION 2300 HARDWARE	8273-1018	2300E - HARDWARE ONLY, HAZARDOUS LOCATION
8273-1001	A*	2301D ST, CSA HAZARDOUS LOCATION		
8273-125	I	2301D-JH/ HIGH SPEED ENGINE CONTROL	8273-1019	2301E-J - MEDIUM & HIGH SPEED ENGINE CONTROL, ORDINARY LOCATION <b>(Released Oct 2013)</b>
8273-126	A*	2301D-J MEDIUM & HIGH SPEED ENGINE CONTROL		

(I) = Inactive 2301D line items as of Nov 2011  
 (\*) = Inactive 2301D line items as of Dec 1, 2013

2301E P/Ns that replace 2301D P/Ns