FENWAL CONTROLS

Summer 2022

UTEC

The Front Burner

A Quarterly Newsletter Highlighting Product & Industry News

Customer need for PLC driven DC Voltage Controls

Fenwal Controls was recently contacted by AJ Machinery in the Netherlands about a unique application they had for industrial ovens. This steel belt conveyor oven more than 36 meters (120ft) in length needed over 150 discrete gas ignition controls to properly control the flame and temperature in all parts of the oven.

To create this new computer-based control system and properly run all the gas burners, it was determined that DC powered controls would be the best solution. AJ Machinery developed a custom solution for monitoring and controlling the over 150 Fenwal Controls 35-40 gas ignition controls.

Utilizing these controls allowed for a clean integration to the 24VDC PLC control system. AJ Machinery also uses this application to upgrade outdated operating systems in similar ovens.

These ovens can vary in length from 20 to 75 meters, the number of burners can be from 30 to 170 and the total burner power can rise to just under 1 megawatt. This design allows each individual burner to be switched on or off through the PLC control system for individualized temperature control per zone.

For more information about AJ Machinery contact them @ aj-machinery.nl

Harmonized Standard Delayed?

Does it feel as if the weight of the world has been lifted off your shoulders? UL and CSA have announced that controls approved to previous standards (prior to 60730-2-5-14) will continue to be certified after the October 2023 deadline.

UL has determined the transition from the legacy standards to the bi-national 60730-2-5 standard was based on harmonization and not on any imminent safety issues in the field. Therefore, an extension of the current effective date was not considered to have any significant safety impact.

As of November 10, 2017, UL's Continuing Certification Approach allows for controls certified to Fifth and Sixth editions of UL 372 to continue to be certified to the requirements in effect for the product provided there are no changes to the control design that require re-evaluation. New or revised constructions could be certified to one of the Legacy Standards noted above, however, effective October 19, 2023, these products along with any products previously certified to Legacy Standards shall either: Comply with the Latest Standard ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14 and ANSI/UL 60730-2-5, 3rd Ed., or the design shall be fixed per the Continuing Certification Program and no further revisions are allowed.

As of May 5, 2022, CSA Group has also adopted a similar approach to 60730-2-5-14 with the following for USA certifications: As of October 19, 2023, product previously certified to ANSI Z21.20-2005, Z21.20a-2008, CSA C22.2 No. 199-2007•ANSI Z21.20-2007 (and Addenda CSA C22.2 No. 199a-2010•ANSI Z21.20a-2010) •UL372 Ed6, or UL372 Ed5, will continue to be certified so long as no changes are made to the product that requires re-evaluation. After October 19, 2023, any changes to the existing product, that require re-evaluation or all new model certifications, will be evaluated to the requirements of ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5.

As of July 20, 2022, AHRI has now also proposed an extension of the effective date. In 2022 there was an additional revision to the 60730-2-5 standard. AHRI proposes an additional 12-month extension to the normal 18-month (for a total of 30 months) to implement the latest version. In our view, this could allow some instances of going from the 2005 ANSI standard directly to the 2022 Harmonized standard.

For further information contact UL & CSA directly for specific and detailed guidance on their policies.

Did you see us in Appliance & HVAC Report?

Our white paper, Collaboratively Created Appliance Controls, No Matter the Industry, was published in the April 2022 issue of Appliances & HVAC Report. This white paper discusses how partnering with a controls manufacturer like Fenwal Controls allows your business to focus on what you do best and leave the control module to us.

Working with many different OEMs over the years has allowed Fenwal Controls to come up with a three-step approach to providing controls to meet our customer's needs:

1. **Control Series** such as the 35-60, a 24VAC Direct Spark Gas Ignition Control can be used by many different OEMs in their appliances with little to no customization.
2. **Configured Controls** are manufactured using the same hardware as one of our standard series controls and then get custom software that allows the control to operate with the OEM's required timings and unique needs.
3. **Custom Controls** are both custom hardware and software for a specific OEM. Fenwal Controls and UTEC Controls have years of experience working with OEMs to deliver products matching their specific requirements.

Click here to read the full white paper…

Questions with your control systems?
Contact our Fenwal Controls Sales Managers: Bill Sager or Mark Tully
Contact our UTEC Sales Managers: Doug Bergstedt or Jeff Lothamer
Or find a representative near you at fenwalcontrols.com

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