

An Overview of Major ISA Standards

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KEYWORDS

Standards, ISA, Design, Specifications, Instrumentation, Automation, Best Practices, Technical Reports

ABSTRACT:

The ISA has a wealth of knowledge to offer the process industries in the form of ISA standards. These standards written using a committee-based and cross-industry approach can equally applied to a wide range of industries including oil/gas, chemical, pulp/paper, mining, power, pharmaceutical and municipal water/wastewater, as well as batch and discrete manufacturing.

Included in the ISA standards portfolio are technical reports, recommend practice documents, and the standards documents themselves. This talk will provide an overview of some of the ISA standards are frequently used in process industries. In total the ISA has over 180 standards, recommended practices and technical reports, not including those that have been adopted as ANSI and IEC standards. The talk will begin with a synopsis of the 20 most commonly used standards, and discuss common applications were they can help the process plant designer, operator, maintenance manager and facility owner. In addition to the commonly used standards, some of the more specialized standards will also be covered in terms of the special situations that they relate to. The presentation will conclude with a short discussion of how the various ISA standards relate to each other. A handout will be provided to all attendees listing the major ISA standards, what they contain, and how they can be used for various automation applications.

About the Speaker:



Graham Nasby, P.Eng., PMP is a senior I&C Engineer with Eramosa Engineering Inc., and is based out of their Guelph, Ontario office. He is a subject matter expert in alarm management and works extensively in the municipal water/wastewater sector. Nasby is a voting member of the ISA18 “Alarm Management” standards committee, co-chair of the ISA18-WG7 working group on packaged system alarming, and contributing member of the ISA101 “Human Machine Interfaces (HMI)” committee, as well as being active in the Canadian TC65A IEC committee under the auspices of the Standards Council of Canada.

Nasby received his B.Sc.(Eng) in Systems Engineering from the University of Guelph in 2004 and has a certificate in Project Management from the University of Waterloo. In 2011, he was awarded the ISA’s Keith Otto prize for “best article of the year” for his “SCADA Standardization” article in the May/June 2011 issue of InTech. In 2011, Nasby was featured in Control Engineering Magazine in their special issue “Leaders Under 40, Class of 2011.” Earlier this year, he was awarded the ISA’s society-level 2013 Technical Division Leader of the Year award for his work in ISA standards, the ISA water/wastewater technical symposium, and in local ISA section activities. Nasby is currently the President of the ISA Hamilton Section in Hamilton, Ontario, Canada. Contact: graham.nasby@eramosa.com