

EDITION  
**26**  
**2024**

Reference Guide  
to the Measurement  
& Control Market ■

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Message from the Reference Guide Committee

Greetings fellow ISA members and users of this Reference Manual.

On behalf of ISA Sarnia Section we would like to welcome you to the 26th edition of this Reference Guide. Sarnia Section Reference Guide Committee in partnership with Grafiks Marketing & Communications is proud to present this first-class resource as purchasing guide and go-to reference for the Instrumentation, Controls & Automation community. You can also visit on-line version of this Reference Guide at [www.isasarnia.com](http://www.isasarnia.com).

Every year, we strive to enhance this Guide in its participation and content. We are also increasing our electronic footprint and trying our best to make our on-line version as user-friendly as possible. Look forward to some exciting announcement from us regarding our electronic presence, in the year 2024.

We would like to thank all the technical contributors and all the advertisers for their continued support. We would also like to thank all the users of this Reference Guide; it is your valuable support that has kept this Guide strong for the last 25 years. We would like to request all users, when you call or write to any of the advertisers, to please mention that you have seen their advertisement in the ISA Sarnia Reference Guide.

The reference guide generates much-needed revenue for ISA Sarnia section to function and offer the valuable programs that it has been offering to the

local automation community for the past 76 years. It is therefore we would like to request all users to helpus get more advertisers for this guide. When you are dealing with any suppliers/manufacturers that you don't find part of this guide, please mention to them how important it is for them to be part of this Reference Guide.

We continue to strive to make the technical information section in this guide more accurate and current and in doing that, we are always looking for new technical information and volunteers to review this section. Your small-time commitment will make this guide even more useful for everyone so please contact anyone of the committee members listed here.

Enjoy your new 2024 Reference Guide.  
Cheers everyone!

ATTENTION MEMBERS OF ISA

If you would like to ensure that you advertise in this publication on an annual basis contact:

ISA Reference Guide Committee

- Kalpen Vachharajani..519-336-7301
- Mike Murray .....519-336-1495
- Ken Armitage .....519-336-3453
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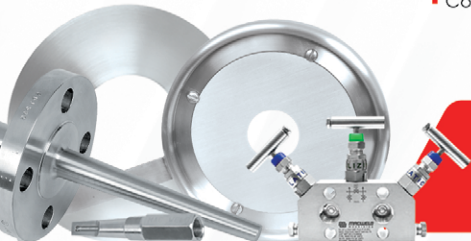
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## ISA Sarnia Section President's Message



Welcome everyone to this year's edition of the Reference Guide. On behalf of the ISA Sarnia Section Executives and membership, I proudly present to you the 26th edition of the Reference Guide to the Instrumentation and Control Market. The Reference Guide has been and still remains the best purchasing guide and go-to

reference for people in the field of instrumentation, control systems and automation. This Reference Guide can also be accessed through our website at **[www.isasarnia.com](http://www.isasarnia.com)**.

In this Global Economy where the Internet brings so many markets closer together, your ability to adapt quickly and make informed decisions is paramount to success and profitability. Having strong technical skills and a quick handy reference helps you lead the pack. Automation and Controls is a big part of everything we do. Most industrial applications require control systems just to function. They make things more efficient and less resource intense. With more and more of a focus on energy efficiency and low carbon foot prints it is more important than ever that we use Automation and Controls to make things faster, smarter and more energy efficient.

As an organization, ISA provides immense opportunities to its members to become a valuable asset for their company by providing them access to technical standards, training, knowledge bases and even industry experts through great networking opportunities. ISA has a great network of Sections, Districts and Divisions that are globally connected. Making use of these global connections provides a unique opportunity to ISA members and through them to their employers. Quality programs are the essence of what ISA is all about and we, your Sarnia Section Executives, are committed to offer you just that. The Reference Guide is one of the several activities Sarnia Section is undertaking this year. Some other programs and events planned for this year include dinner meetings, educational

seminars, engineering week, golf tournament, etc. Visit our section website **[www.isasarnia.com](http://www.isasarnia.com)** often as the details of the programs are constantly updated.

I would like to thank the Reference Guide committee and Grafiks for their diligence and hard work in producing this publication consistently for 26 years. I would also like to thank all the advertisers and technical contributors for their support. Without them this successful publication would not continue. Thank you, the user of this Reference Guide, enjoys all the great references and support our advertisers. When you call or write to any of the advertisers, please mention that you have seen their advertisement in the ISA Sarnia Reference Guide.

I would like to encourage every one of you to become a member of ISA and if you are already, become an active member of this premier organization and make the most out of your membership. The last couple of years have been challenging for all of us and for ISA. We will continue to move forward and adapt to this ever changing world. As much as things change they still remain the same in some aspects. We are human after all and it is the networking and social aspect of ISA that can really be of benefit. I'm looking forward to seeing everyone at the dinner meetings and other fun activities.

All the best,

Dave Woodill  
ISA Sarnia Section President

### Things To Do Today

- |  |  |
|--|--|
| <input type="checkbox"/> Join ISA              | <input type="checkbox"/> Attend Conference   |
| <input type="checkbox"/> Attend Dinner Meeting | <input type="checkbox"/> Bring in New Member |
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## ISA Sarnia Section Executive Group

To find or contact any of your 2023/2024 ISA Sarnia Executive, visit our website at **[www.isasarnia.com](http://www.isasarnia.com)** and look for the Executive Group, or scan the QR code.



## Past Presidents

<b>1945/46</b>	ISA officially was born as the Instrument Society of America on April 28 1945, in Pittsburgh, Pennsylvania, USA	<b>1965/66</b>	Ted Stock	<b>1995/96</b>	Mike Murray
<b>1946/47</b>	Albert F. Sperry, chairman of Panelit Corporation, became ISA's first president in 1946. Sarnia Section not yet chartered.	<b>1966/67</b>	Ted Stock	<b>1996/97</b>	Randy Dennie
<b>1947/48</b>	C.G. Elder (Sarnia Section received charter September 1, 1947)	<b>1967/68</b>	Bill Rion	<b>1997/98</b>	Andrew Tucker
<b>1948/49</b>	W.J. Graeb	<b>1968/69</b>	Bud Dodds	<b>1998/99</b>	Mike Murray
<b>1949/50</b>	Ken Goldring	<b>1969/70</b>	Ray Wechselberger	<b>1999/2000</b>	Mike Murray
<b>1950/51</b>	Amby Upfold	<b>1970/71</b>	Bill Glendon	<b>2000/2001</b>	Randy Dennie
<b>1951/52</b>	Ken Goldring	<b>1971/72</b>	Curt McDonald	<b>2001/2002</b>	Randy Dennie
<b>1952/53</b>	Amby Upfold	<b>1972/73</b>	Everett Maness	<b>2002/2003</b>	Kalpen Vachharajani
<b>1953/54</b>	Warren McKay	<b>1973/74</b>	Stan Thrift	<b>2003/2004</b>	Don Murch
<b>1954/55</b>	Jack Heatley	<b>1974/75</b>	Bernard West	<b>2004/2005</b>	Brian Smith
<b>1955/56</b>	Larry Hall	<b>1975/76</b>	E.A. Comello	<b>2005/2006</b>	Don Murch
<b>1956/57</b>	Harold Kohlmeier	<b>1976/77</b>	Jim Henrikson	<b>2006/2007</b>	R. Steven Webster
<b>1957/58</b>	Ron Asselstine	<b>1977/78</b>	Jim Johnson	<b>2007/2008</b>	Brian Davidson
<b>1958/59</b>	Mike Hicks	<b>1978/79</b>	Ron Thurier	<b>2008/2009</b>	Brian Davidson
<b>1959/60</b>	Mike Hicks	<b>1979/80</b>	Dave Braedley	<b>2009/2010</b>	Jeff Talbot
<b>1960/61</b>	Mike Hicks	<b>1980/81</b>	John Stassen	<b>2010/2011</b>	Jeff Talbot
<b>1961/62</b>	George Mills	<b>1981/82</b>	Wayne Jamieson	<b>2011/2012</b>	Rob Dickson
<b>1962/63</b>	Robert Brayne	<b>1982/83</b>	Frank Bandura	<b>2012/2013</b>	Rob Dickson
<b>1963/64</b>	Robert Newman	<b>1983/84</b>	John Tranter	<b>2013/2014</b>	Mike Murray
<b>1964/65</b>	Robert Newman	<b>1984/85</b>	Robb Sharp	<b>2014/2015</b>	Mike Murray
		<b>1985/86</b>	Ron Kells	<b>2015/2016</b>	Kalpen Vachharajani
		<b>1986/87</b>	Howie Whitton	<b>2016/2017</b>	Kalpen Vachharajani
		<b>1987/88</b>	Joe Lobo	<b>2017/2018</b>	Mike Murray
		<b>1988/89</b>	Irvin Hawkes	<b>2018/2019</b>	Mike Murray
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		<b>1992/93</b>	Bob Kelly	<b>2022/2023</b>	Dave Woodill
		<b>1993/94</b>	Bill Arundell		
		<b>1994/95</b>	Larry Corbett		

### Sarnia Section

#### General Member Meetings

##### Sarnia Golf and Curling Club

Year 2024: January 29, March 25, May 27 (AGM), September 30, November 25

Year 2025: January 27, March 31, May 26 (AGM), September 29, November 24

### Executive Meetings

#### Sarnia Golf and Curling Club

Year 2024: February 26, April 19, June 24, August 26, October 28, December 9

Year 2025: February 24, April 28, June 30, August 25, October 27, December 8

## Why should you join ISA?

### ISA is Your Organization

Join ISA to engage with peers and subject matter experts around the world, sharing and developing best practices to advance the profession.

We are creating the future of automation, and we need your skills, perspective, and insight to make it happen.



### ● Standards

ISA develops consensus industry standards for automation technologies and applications in key areas such as security, safety, batch control, enterprise integration, wireless communications, traditional instrumentation, measurement, and control.

ISA members have access to all ISA standards, recommended practices, and technical reports online.

### ● Education and Training

ISA has leading-edge training available on topics that matter most: communications, control systems, cybersecurity, plant maintenance, and safety. Courses are offered online via self-instruction, online instructor-assisted, or at a regional classroom location.

ISA offers unbiased, vendor-neutral training and education programs where you can develop your skills through in-depth, real-world material. ISA members are eligible for course discounts.

### ● Geographic Sections

ISA Sections engage in the community to provide information, resources, and scholarships to advance the automation profession. By participating in your local section, you will have opportunities to access resources such as table top exhibits, subject matter experts, networking and leadership opportunities, and local employment opportunities.

Network with professionals in your local area through geographic sections.

### ● Technical Divisions

ISA Technical Divisions exchange information in newsletters with timely technical articles and news, and through exclusive division online communities.

Divisions align members around specific technical areas of interest and expertise across a wide-range of automation disciplines.

- Analysis Division
- Automatic Controls and Robotics Division
- Automation Project Management and Delivery Division
- Building Automation Systems Division
- Chemical and Petroleum Division
- Communications Division
- Construction and Design Division
- Education Division
- Food and Pharmaceutical Division
- Mining and Metals Division
- Power Industry Division
- Process Measurement and Control Division
- Pulp and Paper Division
- Safety and Security Division
- Smart Manufacturing and IIoT Division
- Test Measurement Division
- Water and Wastewater Division

## Conferences and Events

ISA organizes many events around the world. By attending an event, you will have the opportunity to exchange ideas, engage with ISA leaders in policy-setting and strategizing during the annual leadership conference, and discover new technologies alongside some of the brightest minds in the automation industry. Review ISA's calendar for worldwide events.

ISA hosts topic-focused and industry-specific, face-to-face events in dozens of countries throughout the year. Members can hear expert speakers and panel discussions at a discounted rate.

## Publishing

Written and reviewed by experts, ISA Publications help keep automation professionals fully informed about the latest technical developments, applications, trends, and standards. Technical topics include safety, cybersecurity, instrumentation, process control, wireless technology, and many others.

Through ISA's publications, members have access to thousands of articles and technical papers at no charge.

## Certification

ISA Certification provides an objective, third-party assessment and confirmation of a person's skills, and gives them the opportunity to stand out from the crowd and be recognized. ISA currently offers two certification programs: Certified Automation Professional® (CAP®) and Certified Control Systems Technician® (CCST®).

ISA members can apply to take ISA's Certified Control Systems Technician® (CCST®) and Certified Automation Professional® (CAP®) exams at a discount.

## ISA Connect

ISA Connect is an online community to engage in technical conversations and share best practices.

The ISA Connect Technical Discussion Forum is exclusively for members.

Members will have the ability to network and communicate with other members around the world, contribute and subscribe to technical discussions, share and access resources in the technical library, and discover opportunities to get involved in ISA.

## Membership benefits at-a-glance

### Member Programs

- Local section
- Technical divisions
- Automation Career Center
- Leadership opportunities
- Member Directory
- Use of ISA member logo
- ISA Connect Technical Discussion Forum
- Expert Directory

### Standards and Publications

- Online viewing of ISA Standards
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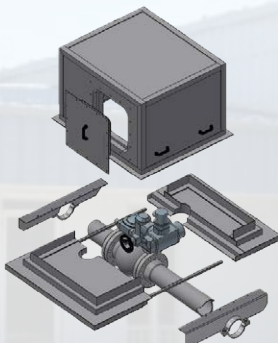
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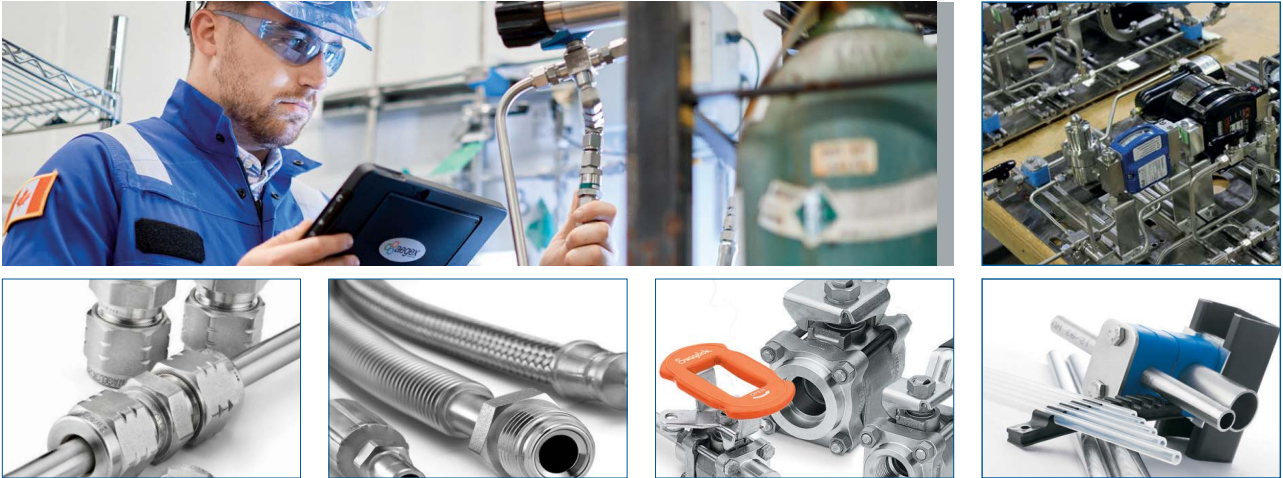
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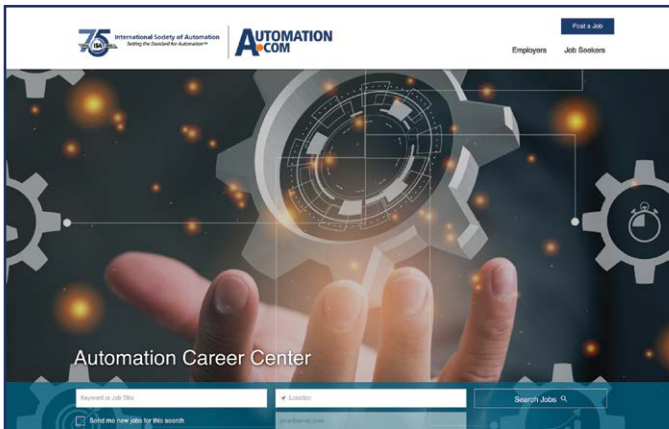
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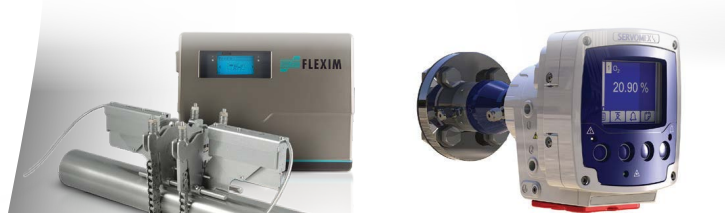
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