

ANNUNCIATOR

September 1994



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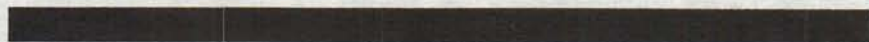
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Editor's Notes

Watch for the continuing saga...

"WRITTEN ON A ROLL CHART"

These are the collective writings of HOWARD HOBBS,
with commentary by Bob Connell.

ADVERTISERS: Please note that the deadline for the November ANNUNCIATOR is October 18, 1994. Please forward information to the editor by that date in order to have items updated.

NOTE

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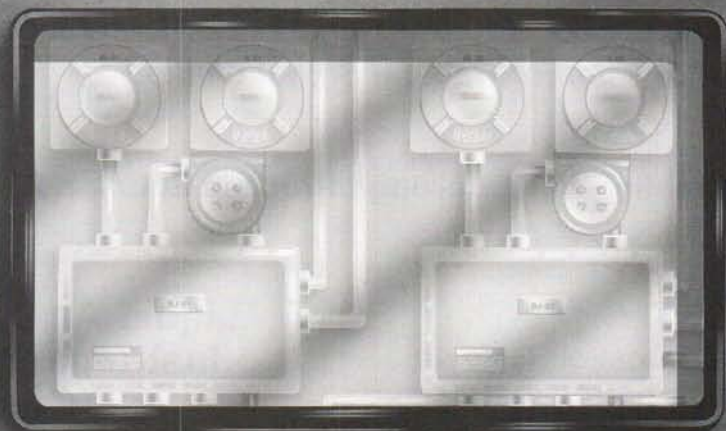
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PRESIDENT'S LETTER

Another year is beginning for the Sarnia Section of ISA, as witness with the turnover dinner held June 13th at Wagg's restaurant for your new executive.

No time was wasted as the first meeting of the new executive was called for July 25th, 1994 at the Drawbridge Inn to start preparations for budgets to carry our section through 1994-95.

All budgets will be finalized at our September 12th executive meeting for presentation at our September 26th dinner meeting at the Drawbridge Inn.

In the coming months many of our executive, past executive and members will be busy on various committees to make this year another successful and fulfilling year. But no committee will be more busy than the Sarnia contingent that will be helping shape the success of the ISA 95 exhibit in Toronto. Dates for this exhibit will be April 22 & 23, 1995.

Dick Felton, of the Sarnia Section, has accepted the position of "Executive Vice Chair" with the host committee that will oversee ISA 95, in Toronto. Dick has agreed to make the presentation informing our membership at a later dinner meeting, the progress of the host committee.

In the forth coming months, we will be calling on the local membership to not only support our many committees' activities, but also to allow themselves to get involved in our section.

Sincerely,
Larry J. Corbett,
President 1994-95

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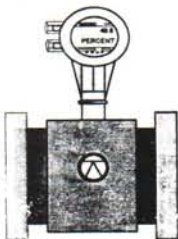


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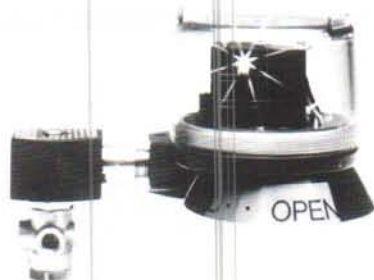
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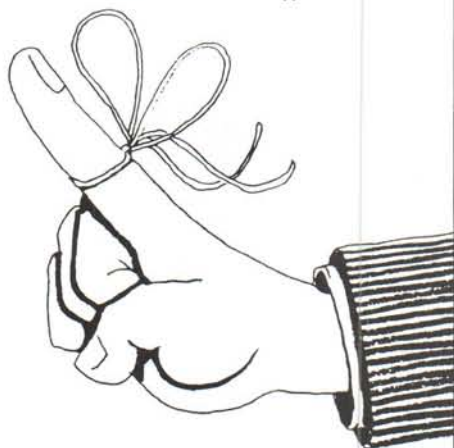
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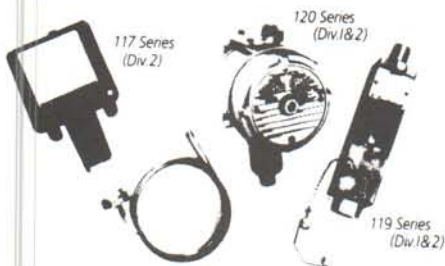
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A Membership Problem – And How Sarnia Handles It

(Reprinted from ISA Journal, December 1955.)

Many of the local ISA Sections have some kind of "membership problem" to which they seek a satisfactory solution. Quoted from the "President's Corner" in the Sarnia Section monthly *Bulletin* is the following letter to the Section membership.

In his letter, Section President L. J. Hall takes each "reason" for members' complaints and answers clearly.

"As the new season begins, your Section's new executive faces a real challenge – to offset the dwindling membership of the Sarnia Section, ISA. Official membership as of September 1, 1955 was 77 as compared to 134 in 1953. Of the 77, 18 are behind in their dues.

"Various reasons for the decline in membership are advanced. They are:

1. The dues (\$12 per year) are too high for the average mechanic.
2. The programs are uninteresting.
3. The ISA cannot do anything to influence employers to look more favorably on Instrument Mechanics.
4. The ISA does not provide enough schools on which the mechanic can better his instrument education.

"All of these reasons have some truth in them, but all of them can be shown to be not good enough for the man who is really interested in instruments. Let us take them one by one.

"First, dues: While the executive of the Sarnia Section believes dues could be lower and is taking every step to get them lowered, we still believe they are not too high for the returns. Most mechanics who claim they cannot afford \$12 a year are also the ones who claim they cannot afford \$2 per year when the Sarnia Instrument Society was not affiliated with the ISA back in 1947. Incidentally, our membership then was only 65, about the same as it is now. At that time – with price controls still on – \$2 would buy what \$5 would buy now, and while the average mechanics wage was 85 cents an hour, he now gets \$2 per hour. So, allowing for inflation, even the dues of the old Sarnia Instrument Society should have been about \$6 per year. Then, adding on the increased benefits and prestige to be gained by affiliation with the ISA, the dues should be about \$10 which is the figure the executive desires. A great number who cannot afford \$1 per month for the ISA are paying from \$2 to \$3.50 per month for union dues. Unions not only fail to help the cause of the Instrument Man, but actually strive to keep him down to the level of 'other trades'. Some will pay from \$24 to \$50 per year for various club dues, which may help his social life, but does not help him in his job – without which he would have no social life."

"Reason No. 2: 'The programs are uninteresting.' Well, you cannot please all of the people all of the time. For the critical person with little foresight, only one or two programs per year may fill his particular needs for

(Continued on Page 28)

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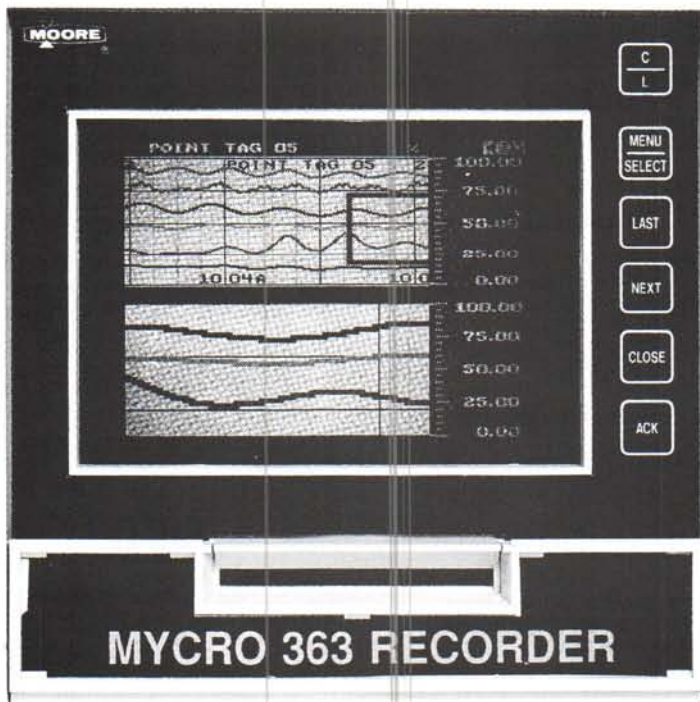
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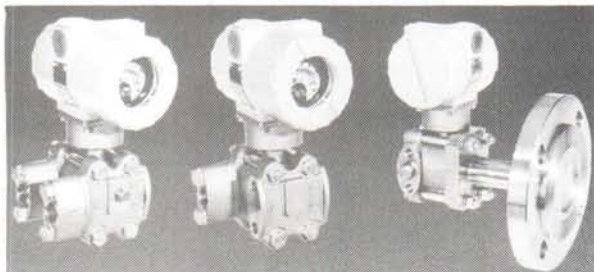
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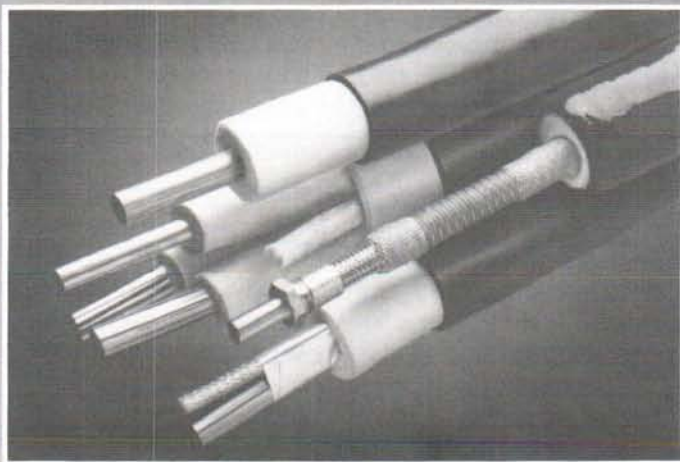
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satisfy the needs of most members."

"We have frequently heard the complaint: 'Why should I pay to belong to the ISA when I can attend the meetings for nothing?'"

"While attending meetings is only one of the benefits of ISA membership we feel the complaint is valid. At our September executive meeting, we decided that from now on, only ISA members will be admitted to meetings. In order that a prospective member may 'sample' a meeting before he decides to join, such a person may attend two meetings by applying for an invitation card issued by the Membership Chairman. He can get this card by direct application to the Membership Chairman, Tom Scarsbrook, Dow Chemical or 744 Sylvia Street – or, to his company representative – but, he must have an invitation and wear the guest card in his lapel at the meeting. Besides this opportunity, two programs per year will be open meetings, and will be advertised as such in the *Bulletin*. This restriction does not apply, of course, to guests of the speaker. Yours for a Better Society." – L. J. Hall, President.

"Written on a Roll Chart"

By Howard Hobbs

Another month has passed, and once more it is time to produce another article, which, to fit in the available space, should not exceed five hundred words. I find it difficult, when I am interested in a subject, to be limited this way and have to leave unsaid many things which would be interesting to our members.

To those who have suggested a great variety of subjects to use in our magazine, I can only say "Thank you". If you don't see your idea in print, you are free to assume that I was

- (a) Afraid to alienate the affections of an advertiser.
- (b) Afraid to be truthful about instrument designers.
- (c) Just plain CHICKEN!

Our prolonged Indian Summer is over and once again we are deep in the season of steam tracing burns, freeze-ups, and that combat fatigue caused by too much steam hose work. I wonder why all process designers have Southern California in mind when they draw their plans. More money is spent on steam tracing and on wooden overcoats for the meters than would be needed to roof the whole place in. It would be a great help even if the locations of instruments were arranged a little more compactly, so that a whole group could be kept warm in one shack, instead of each one standing aloof in its own little sentry box.

How delightful it would be to snatch these misguided geniuses from their tropical homes and make them carry a steam hose to the two hundred foot platform to thaw out the forlorn instruments that live there. Preferably on Christmas Eve. Preferably at 2 deg on the Fahrenheit scale. Likewise, a good

(Continued on Page 36)

Support Our Supporters. Makes Sense.

By David Bishop

With a membership of almost 50,000 and an annual budget of more than \$20 million, it requires about \$400 per member for ISA to operate at its present support level. And this funding level reflects only the support furnished by the Society itself — that is, not the support provided by local sections.

As you probably are aware, ISA sections are independent entities; most are incorporated. Sections do receive a rebate of 20% of the Society dues paid by members of their sections, \$12 per member, effective January 1, 1994.

So you ask, "What does this mean to me?"

It means that our dues would reach \$400 per year if we kept our same benefits and did not receive support from those companies that advertise

in our journals, newsletters, and vendors' directories, and exhibit in our shows.

ISA is a not-for-profit organization; these supporting companies are not. Neither are they Good Samaritans, per se. If they don't get added value from their advertising and exhibiting, they would be foolish to continue their support.

I'm not suggesting that we buy from our supporters *carte blanche*, but I do suggest that we give them full consideration when selecting vendors for our bidders' lists, when selecting contractors, firms, or consultants for our out-sourcing, etc.

Let's support those who support us.

David Bishop (Chevron USA Production), based in Houston, Texas, served ISA as president in 1992.

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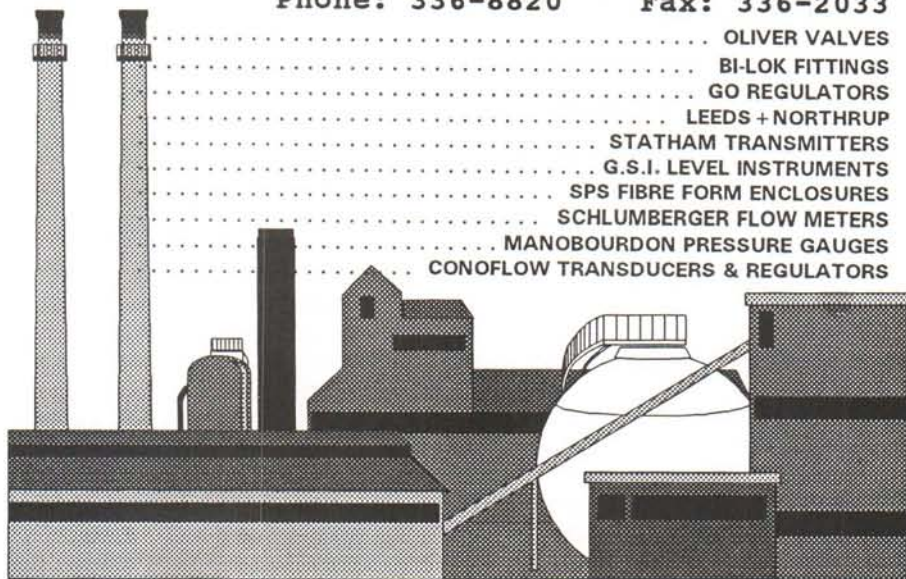
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(Continued from Page 31)

stiff breeze from Lake Huron. Ah! That is the stuff that dreams are made of.

Another group of people who are always with us, come rain or come shine, are the insulators. Taken as individuals, they probably cannot be distinguished from you and me, but collectively they are a menace to instrumentation. Granted, their work is essential. Without insulation and heat the poor meters would perish. Unfortunately, most insulators are recruited from unemployed trapeze and tightrope artists who never let themselves get out of training. To them, a 1/4 inch air line is an ideal stepping stone, and a bank of transmission lines is made to order for tumbling and trampoline work. Anyone caught using a ladder or scaffold is automatically expelled from this gymnastic set.

Enough of this I must get my shotgun oiled. I hear that a brief open season will be declared. I have my first victim picked out. He is hanging by one toe from a capillary. Are dum-dum bullets illegal.

From the ISA Sarnia Section Bulletin - December 1952

It is safe to say that all instrument men are eccentric. Whether it is the environment that pushes the otherwise normal man across the dividing line, or whether there is some fascination about the trade that attracts natural born crackpots, are questions which I do not propose to discuss. I merely offer it as an undeniable truth backed by ample evidence. Just stop for a moment and consider your associates, and I am sure you will agree that each is a little off the beam.

If we, the users of instruments, must number ourselves among the unbalanced, and I would be the last to dispute it, we must reserve an ample space in the front rank for the makers of instruments. Off in a little group by themselves we must place designers of level instruments, bless their little pointed heads!

You may wonder why I give Honourable Mention to this small segment of the industry. The answer is simple. They are adept at doing things the hard way. Recent experience has shown me that these boys prefer the round-about way of doing everything. They would probably perform a certain intimate function while standing up in a hammock!

We are using one type of level instrument which can only have been evolved in some padded laboratory. The primary element consists of six large balls, (enough for two pawn shops). These are bolted to a spacer which holds the balls equidistant on the circumference of a circle, in which position they may float up and down on the surface of a liquid. The balls carry with them three magnets which are in the center of the circle and the whole shebang is guided by three-quarter inch stainless steel pipe which drops vertically from the centre of the tank.

This pipe is capped at the bottom and has within it another magnet, complete with little wheels, which is attracted by the outer magnets. This inner magnet is tied to a nylon cord which winds and unwinds from a drum as the level changes. The drum is geared (courtesy of Massey-Harris), to an indicating counter and by a very sturdy linkage to an alleged air transmitter.

Now even if the contraption worked like the advertising pamphlets said it would, I would be not fond of it still, because it is far too intricate for what it is doing. If a fly is unkind enough to deposit his waste inside that pipe, the little magnet can't get over the hump. We cured this trouble by filling the pipe with alcohol, (a good cure for many troubles), trusting that the insect population were

(Continued on Page 57)

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ISA / 95

Work is progressing on the show in Toronto. However, there are still a lot of jobs that need to be done to ensure that the show runs smoothly. Any and all help will be appreciated. Please contact Bill Arundell if you can be of Help!

Bulletin Board System (BBS)

The fund raising for the BBS is complete. About \$7,500 was collected. Thank you to everyone who contributed to the fund. The new computer is being purchased and should be running before the next meeting.

If you have not already given the BBS a try, give us a call at 541-0427.

P.S. You can find the complete text of the minutes for the Executive Meetings on the BBS.

Dinner Meetings

Dress for the meetings must be presentable. IE neat, clean and no holes in the knees. Jackets and ties are not required.

Suggested topics for dinner meetings include “Latin Flavoured” Spouses Night, and 50th Anniversary Celebration for the first meeting in 1995. Other suggestions would be appreciated. Give Jennifer Southcombe a call if you have any ideas or comments.

It was suggested that Vendors be allowed to put on mini displays at the dinner Meetings. These displays would be organized on a product basis. IE tonight is FLOW Night, as opposed to one vendor displaying his entire line. The cost for each vendor has been suggested as \$50 - \$100.

District Vice President Elect

Names of candidates for District Vice President should be forwarded to Howie Whitton before September 1st.

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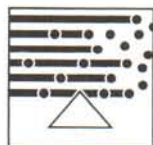
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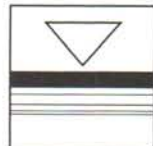
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Meeting Dates

MEMBERSHIP DINNER MEETINGS

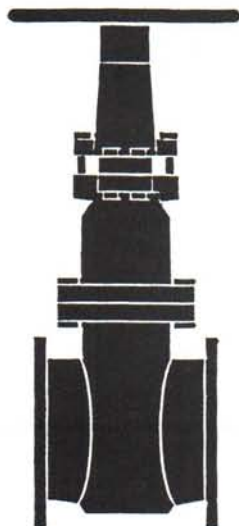
Date	Place
September 26, 1994	Drawbridge Inn
November 28, 1994	Drawbridge Inn
January 30, 1995	Drawbridge Inn
March 27, 1995	Drawbridge Inn
May 29, 1995	To Be Announced

Time: Cocktails @ 6:00 p.m. **Dinner:** @ 7:00 p.m.

EXECUTIVE MEETINGS

Date	Place
September 12, 1994	Drawbridge Inn
November 7, 1994	Drawbridge Inn
January 9, 1995	Drawbridge Inn
March 6, 1995	Drawbridge Inn
May 8, 1995	Drawbridge Inn

Time: 7:00 p.m.



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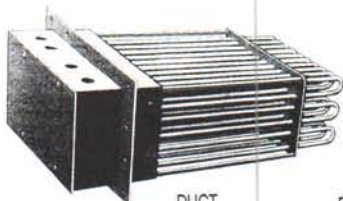
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ISA / 95 Canada

The international conference and exhibition for ISA / 95 will take place at the Metro Toronto Convention Centre, Toronto, Ontario, Canada.

Partners for Success

The deadline for the Partners for Success - Every Member get a Member Campaign has been extended to December 31, 1994. Winning sections will be recognized at the President's Winter Meeting in San Diego in January. Winning sections will also receive a special recognition plaque and up to \$500 for an ISA - sponsored campaign celebration!

NOTE

To have your News Release or Career Opportunities published in the Annunciator, please forward the information to:

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DINNER MEETING

September 26, 1994

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Dinner 7 pm

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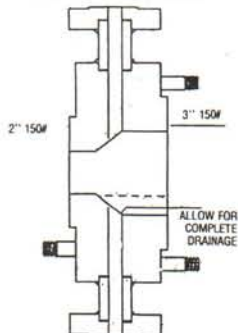
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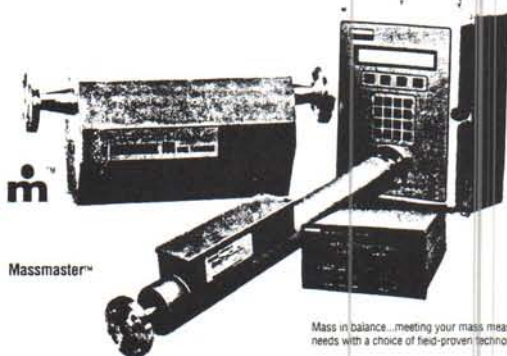
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- Unomat Multi-Function Calibrators
- Pressure Calibration Services
- A.S.L. Automatic AC Resistance Bridge
- Precision Thermometer
- Low Pressure Calibrators

LEVEL
FLOW

- Depth/Level Pressure Transducers and Transmitters
- Liquid Level Control Systems
- Leak Detection Systems
- Overflow Prevention Control Systems
- Flow Meters

- Tank Level Gauging
- Precise Liquid Inventory Management
- Vehicle & Railcar Grounding Systems
- Bottom Loading Systems
- Flow/Level Switches

POSITION
DISPLACEMENT
LOAD
FORCE

- Rectilinear Position Transducers
- Linear Position and Velocity Transducers
- Linear Displacement Transducers
- Force Sensors

- Rotary Position Transducers
- Programmable Position Monitors
- Linear Position Indicators
- Load Cells

VIBRATION

- Low Cost Piezoresistive Accelerometers
- Instrumentation

- Velocity Sensors
- Monitors

RECORDERS

- Graphic Recording Systems
- Transient Data Recorders
- Instrumentation Recorders

- Digital Recording/Analysis Systems
- Transient Digitizers
- Waveform Digitizers

DATA ACQUISITION AND
CONTROL SYSTEMS

- Transient Acquisition & Analysis Systems
- Static & Dynamic Data Acquisition Systems
- Portable Battery-Powered Data Acquisition Systems

- Signal Capture & Analysis Systems
- Camac (ANSI/IEEE) Based Data Acquisition Systems

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☐ Check here if you are a full-time student and complete the following: School _____ Year of Graduation _____
 Mailing Address: ☐ Home ☐ Work NOTE: Student member applicant, please list permanent home address.
 Street Address/P.O. Box _____ Mail Stop _____
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 State/Province _____ Postal Code _____ Country _____
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 Have you ever been a member of ISA? ☐ Yes ☐ No Previous years of membership _____
 Assign me to the _____ section or the section closest to my home address.
 Highest Educational Degree Earned ☐ High School ☐ Associate ☐ Bachelor ☐ Master ☐ Doctorate
 Are you a registered professional engineer? ☐ Yes ☐ No State/Country Registered _____
☐ From time to time we may make our mailing list available to companies whose products or services may interest you. If you do not want your name exchanged, please check this box. We will respect your wishes.

2 NOTE: Sections 2, 3, and 5 must be completed for processing.

Check your primary job function:

- ☐ A: General or Corporate Management
☐ B: Control Systems Engineering
☐ C: Design Engineering
☐ D: Production Engineering
☐ E: Plant Engineering or Maintenance
☐ F: Software Engineering
☐ G: Plant Information Systems
☐ H: Systems Integration
☐ I: Measurement, Testing, Quality, or Standards
☐ J: Research and Development
☐ K: Technical or Engineering Support
☐ L: Operations
☐ M: Purchasing or Procurement
☐ N: Education or Training
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☐ P: Others: Describe _____

What is the primary end product manufactured or service performed at your company location? _____

☐ Check here if no manufacturing is done at this location.

3 Signature _____
 Date _____

5 Dues Payment Information

Please select the level of membership for which applying:

- ☐ Regular Member: \$60 US (Tax Deductible) \$ _____
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4

Automation & Technology Divisions <input type="checkbox"/> (A) Analysis* <input type="checkbox"/> (C) Robotics & Expert Systems <input type="checkbox"/> (D) Computer Technology* <input type="checkbox"/> (E) Open Systems Interconnection <input type="checkbox"/> (H) Process Measurement & Control* <input type="checkbox"/> (I) Maintenance	<input type="checkbox"/> (J) Test Measurement* <input type="checkbox"/> (M) Automatic Control Systems* <input type="checkbox"/> (N) Telemetry & Communications <input type="checkbox"/> (P) Electro-optics <input type="checkbox"/> (W) Management*	Industries & Sciences Divisions <input type="checkbox"/> (B) Aerospace Industries* <input type="checkbox"/> (F) Mining & Metals <input type="checkbox"/> (G) Chemical & Petroleum Industries* <input type="checkbox"/> (K) Construction and Design* <input type="checkbox"/> (L) Pulp & Paper Industry* <input type="checkbox"/> (O) Power Industry*	<input type="checkbox"/> (R) Food & Pharmaceutical Industries* <input type="checkbox"/> (T) Textile Industry <input type="checkbox"/> (U) Automotive & Vehicular <input type="checkbox"/> (X) Water & Wastewater Industries <input type="checkbox"/> (Y) Glass & Ceramics Industries <input type="checkbox"/> (Z) Marketing & Sales*
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* Students are entitled to one free membership each in the Automation & Technology and Industries & Sciences Divisions.

Please choose and mark from the asterisked selections.



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19" Rack Apparatus.
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Chart & Data Recorders.
Gas Analysers.
Motor Control Centers.
Condition & Monitoring.

USERS DIRECTORY

This index lists manufacturers and trade-names alphabetically and enables users to determine the local representative for a particular manufacturer or product.

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3-D
3M
A.H. Emery
A.W. Sperry
Abrasion Solutions
Accutech
Acme Flo
ACR Systems
Acromag
Acrotech
Action Instruments
Advanced Pollution Instrumentation (API)
AEMC
AFE
AGI
AGM Electronics Inc.
Air Flow
Airscon
Alltemp Sensors
Alnor
Alnor Instruments
Altek
Altek
Amal
American
American Cylinders
Ametek
Ametek
Ametek
Ametek - Analyzers
Ametek - Mansfield & Green
Ametek - PMT
Ametek - U.S. Gauge
Ametek Gauges
Amprobe
AMS Analytical Systems
Analogic
AnaradVermeer
Anderson Greenwood
API Meters
Apollo
Appalachian Controls
Applied Automation
Argus Hi Performance Ball Valves
ARi
Arjay
Armatek
Armstrong
Armtec
ASCO
ASCO
ASCO
ASCO
Ascoelectric (OEM)
Ashcroft
Ashcroft-Dresser
Ashford Valve
Astro International

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Circuit Tracer Kit Transcat
Syber Systems Inc.
Transcat
Controls
Brian Controls
Neles-Jamesbury
Alpha Controls & Instrumentation
Willer Engineering
Transcat
Cambridge Controls
Westech
Transcat
elenex Ltd.
Controls
Vermeer Engineering
Transcat
SSCAN Technologies
TubeTech
Baker Instruments Ltd.
Transcat
Alpha Controls & Instrumentation
Transcat
Cambridge Controls
elenex Ltd.
Provincial Controls
Brian Controls
SSCAN Technologies
Transcat
Westech
Brian Controls
Brian Controls
Brian Controls
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Transcat
Vermeer Engineering
Transcat
Engineering
Cantech Controls
Lisle-Matrix Ltd.
Romatec
Controls
Westech
Romatec
Alpha Controls & Instrumentation
TubeTech
Armatek Controls
Willer Engineering
Bestobell Canada
Conval Equipment
Lakeside Controls
TubeTech
Westburne Lytle
Atlas Alloys
Transcat
Conval Equipment
Bestobell Canada
Detech Industries

Manufacturer / Tradename

Atkins
 Auma Electric Actuators
 Autocal
 Autoclean
 Autotech
 Azonix
 B & K
 Babbitt International Inc.
 Bacharach
 Bacharach
 Bacharach - Hand Held Instruments
 Badger Meter
 Badger Meter - Research Control Valves
 Bailey Controls
 Baldwin Environmental Inc.
 Barber-Colman
 Barnant
 Baumann Control Valves
 Beamex
 Bebcos Industries
 Beckman Industrial
 BEHA
 BEI
 Bellofram
 Bellofram
 Berthold
 Beta
 Bi-Lok Fittings
 Biccotest
 Biddle
 Bio-Tek
 Bios
 Bios International
 Blue White
 BOILER-GARD
 Bonney Forge
 Brandt
 Brandt Instruments
 Branson
 Brian
 Bristol Babcock
 Brooklyn Thermometer
 Brooks Instrument
 BS & B
 Burkert Contromatic
 Cajon Pipe Fittings
 Cal
 Canadian Meter
 Cancoppas
 Canross Environmental
 Cantech Systems
 Cash-Acme
 Cashco Canada
 Cashco Canada
 CEA
 Cel Instruments
 Cellex
 Celtek
 Century
 Cerabar
 Chandler
 Chem-Tec
 Chemtrol
 Chessell
 Cliff Mock

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 TubeTech
 Novatech
 Davis Controls
 Transcat
 Conval Equipment
 Transcat
 Controls
 Transcat
 Transcat
 Willer Engineering
 Conval Equipment
 Romatec
 Westech
 Transcat
 Sarnia Piping Specialties
 Transcat
 Transcat
 Transcat
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 Brian Controls
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 Willer Engineering
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 Sharp Valve & Instrumentation
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 Romatec
 Provincial Controls
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 Davis Controls
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 Valve Brian Controls
 Endress + Hauser
 Transcat
 Brian Controls
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 Willer Engineering
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Manufacturer / Tradename

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 Collins Instrument
 Computer Keyboard Systems (CKS)
 Conant Controls
 Conders
 Conductive Technologies
 Conoflow
 Consolidated
 Consolidated Controls
 Consolidated Controls - U.S.A.
 Control Instruments Corp.
 Control Microsystems
 Controlair Inc.
 Controlotron
 Cooper Instruments
 Cox
 CSI - Microloggers
 Custom Control Sensors
 Cybex
 Danfoss
 Danfoss Mfg. Co. Ltd. - Denmark
 Daniel
 Darmatt
 Data Industrial
 Data Instruments Inc. - USA
 Data Precision
 Datavue
 Dattel
 Davis Controls Ltd.
 Davis Instruments
 Defelsko
 Dekoron
 Delphian
 Delta C Technologies
 Delta-M
 Deltabar
 Deltapilot
 Detector Electronics
 Devar
 DewPro
 DGH
 Dianachart
 Dickson
 Digitec
 Dillon
 Dopak
 Dover Gas Technologies
 Draeger
 Dresser
 Druck
 Druck
 DSP Technology
 Durafet
 Durakool
 Duro
 Duro-Sense
 Dwyer
 Dwyer
 Dwyer
 Dynapar
 Dynapar
 Dynasonics
 Dynatech
 E-T-A Control Instruments
 E. G. & G. Moisture & Humidity

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 Willer Engineering
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 Cambridge Controls
 Westech
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 Brian Controls
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 Willer Engineering
 CB Engineering
 Davis Controls
 Lisle-Matrix Ltd.
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 Transcat
 Leeds & Northrup, Canada
 Transcat
 PMP Instrumentation
 Transcat
 Transcat
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 Romatec
 Veronics
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 Endress + Hauser
 Endress + Hauser
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 Cantech Controls
 Endress + Hauser
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 Alpha Controls & Instrumentation
 Transcat
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 Brian Controls
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 SPR Controls Systems Ltd.
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 Davis Controls
 Brian Controls
 Transcat
 Baker Instruments Ltd.
 Davis Controls
 Transcat
 Davis Controls
 J & M Engineering & Sales Ltd.
 Brian Controls
 SSCAN Technologies
 SSCAN Technologies
 Vermeer Engineering

Manufacturer / Tradename

Eagle Signal
 Eaton Consolidated Controls - USA
 Eaton IDT
 ECD
 ECD
 Echotel
 ECS Control Techniques
 EG & G Flow Technology Inc.
 EIT Inc.
 El-O-Matic
 Elcon Instruments
 Elremco Timers - England
 EMCO
 Emission S.A.
 Encoder
 Endress+Hauser
 Enertrol Shocks
 Enertrols
 Engineered Valves International (E.V.I.)
 Environics
 Environmental Technologies Group Inc.
 Environnement S.A.
 Epic Samplers
 Erdco
 Erhard Valves - Germany
 ETC
 Euchner
 Expo Safety Systems
 Exttech Instruments
 F.B. Leopold - USA
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 F.W. Murphy
 Fabco Air
 FCI
 Fike Canada Inc.
 Firerod Cartridge Heaters
 Fischer & Porter
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 Fisons Instruments
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 Flow-Lin Corporation
 Flowline
 Flowtek Valves
 Fluid Data/Amscor
 Fluidic
 Fluke
 Fluke
 Foxboro Analytical Group
 Fulier
 G.C. Industries
 G.S.I.
 Galtek
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 General Eastern
 General Metal Works
 General Monitors
 General Resistance
 General Resource (Isomatic Corp.)
 Geokon
 GGOSCO Engineering
 GGOSCO Needle Valves

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 Provincial Controls
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 Westburne Lytle
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 Davis Controls
 Syber Systems Inc.
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 Davis Controls
 Willer Engineering
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 Zesta Engineering
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 Willer Engineering
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 Provincial Controls
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Manufacturer / Tradename

GGOSCO Valves
 GLA Elettroniva
 Global
 GMD
 GO Proximity Switches
 GO Regulators
 GP:50 New York Ltd.
 Gralab
 Granucor
 GranufLOW
 Granumet
 Great Plains Industries
 H. O. Trerice
 H.D. Baumann Control Valves
 Haenni Instruments
 Hammel Dahl
 Hanna Instruments
 Hansen Quik Connects
 Hartman-Technica
 Hartmann & Braun
 Hedland
 Heise
 Herasus Sensors
 Hewlett Packard
 Hex Valve
 Hiltcraft
 Hitachi
 Hitachi - Oscilloscopes
 Hoffer Flow Controls - USA
 Holaday Industries
 Homestead Valves
 Honeywell
 Honeywell - Controllers
 Honeywell - Controllers & Recorders
 Honeywell - Recorders
 Honeywell - Recorders
 Huntron
 Hy-Cal
 HydriL
 Hygrolog
 IBM Industrial
 IC Controls
 IDEC
 IET
 Illinois Instruments
 Imi-Cash Valve Inc.
 Imperial Eastman
 Imperial Eastman
 Imperial Eastman
 Industrial Scientific Corporation
 Ingold
 Inor
 Intelligent Controls
 Intellitron
 Intellution
 Interface
 Interlink
 International Sensor Technology
 Interscan
 Interscan
 Intertec
 Ionics Instrument Division
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 Ishida/Craft
 IST

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 Lakeside Controls
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 Endress + Hauser
 Endress + Hauser
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 J & M Engineering & Sales Ltd.
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 Veronics
 Willer Engineering
 Atlas Alloys
 SSCAN Technologies

Manufacturer / Tradename

ITT Barton Instruments
 ITT Diaflow
 ITT Neo Dyn
 IVO Industries - USA
 J-Tec
 J.M. Canty
 Jacoby Tarbox
 Jamesbury
 JB Engineering
 Jensen
 Jerguson Level Gauges
 Jofra
 Jofra
 Johnson Yokogawa
 Jordan Controls
 Joucomatic International
 Julius Bauser - Germany
 K-Tek
 Kammer Control Valves
 Kammer Control Valves
 Kane-May
 Kates
 Kay Ray/Sensall
 Kaye
 Kaye Instruments
 Kedco Mfg Ltd.
 Keller
 Kent Meters Inc.
 Kenwood USA
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 Kinetrol Actuators
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 KTM
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 Romatec
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 Romatec
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 Rosemount Instruments
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 Sarnia Piping Specialties
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 Provincial Controls
 Lisle-Metrix Ltd.
 Transcat
 Lisle-Metrix Ltd.
 Campbell Scientific (Canada) Corp.
 Novatech
 U & I Supply

Manufacturer / Tradename

Love
M point
M-System
M-Tek
Madison
Magnetrol
MagTech
Major
Manobourdon
Marsh
Martel
Masoneilan
Max
Max 1000
MCF Ball Valves
Mead
Meeco Inc.
Mercoïd
Meriam Instruments
Met One
Metrix
Metrix Timers
Metrosonics
Micon
Micro Motion
Micromax 2
Micronics Ltd.
Micropilot
Microtrac
Mid-West Instrument
Mid-West Instrument
Mikron
Milton Roy - Liquid Metronics Division
Mini-X Purge
Mini-Z Purge
Mitsubishi
MKS
Mobrey
Modulevel
Monarch
Monitek
Monitor
Monitor Labs
Moore Industries
Moore Products Pressure Regulators
MST
MTL
MTL IS Barriers
Multi-Amp
Multi-Volt
Multitrode
Myron L
Nassau Instrument
NBS
Neles
Neles-Jamesbury
Neotronics
Newman Hattersly
Newman Hattersly
NGI
Nicholson
Nilcor
Nivosonic
Nohken
Norstat

Local Sales Representative

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Endress + Hauser
SPR Controls Systems Ltd.
Transcat
Bestobell Canada
Provincial Controls
Cambridge Controls
Alpha Controls & Instrumentation
Sarnia Piping Specialties
TubeTech
Transcat
Sharp Valve & Instrumentation
Willer Engineering
Leeds & Northrup, Canada
Lakeside Controls
Transcat
Novatech
Davis Controls
Transcat
Campbell Scientific (Canada) Corp.
Transcat
Lisle-Metrix Ltd.
Brian Controls
Cantech Controls
Rosemount Instruments
Leeds & Northrup, Canada
Veronics
Endress + Hauser
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SystemsSyber Systems Inc.
SystemsSyber Systems Inc.
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Bestobell Canada
Provincial Controls
Transcat
Willer Engineering
Romatec
Brian Controls
Armatek Controls
Transcat
Brian Controls
Syber Systems Inc.
Provincial Controls
Transcat
Transcat
Bestobell Canada
Transcat
Transcat
Transcat
Neles-Jamesbury
Atlas Alloys
Transcat
Atlas Alloys
Bestobell Canada
Transcat
Romatec
Sharp Valve & Instrumentation
Endress + Hauser
Bestobell Canada
Davis Controls

Manufacturer / Tradename

Novalynx
 Novatech Systems Group
 NRC Industries
 Numatics
 Numatics
 Nupro Valves
 O'Brien
 Oakton
 Ogontz
 Oilgear
 Oliver Valves
 OMNI
 Omron
 Opsis
 Optikon
 Orange Research
 Orbe
 Orion
 Pacer Industries
 Pacific Instruments
 Pacific Scientific
 Pamark Manifolds
 Panalarm
 Panalarm
 Panametrics PCI Division
 Parker
 Peek Measurement
 Pelican
 Penberthy
 Penberthy Instruments
 Penny & Giles
 Pepperl + Fuchs - USA
 Permacal
 Phipps & Bird
 Phoenix Contact
 PMV
 Polysonic Inc.
 Polytronics
 Porter Instrument Co. - USA
 Powers Process Control
 Precision Digital
 Precision Digital
 Preferred Rimcor Inc.
 Preso
 Pribusin
 Pribusin Inc.
 Progeny
 Promac
 Promag
 Promag
 Promass
 Proquip
 Prosonic
 Provincial Instrument Housings
 Provovox
 Proximity
 Proximity Control
 Psytronics
 PTC
 PTC
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 Pyramid
 QSDM
 QSDM
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Local Sales Representative

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 Novatech
 SSCAN Technologies
 Provincial Controls
 elenex Ltd.
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 Bestobell Canada
 Sarnia Piping Specialties
 Westech
 elenex Ltd.
 SSCAN Technologies
 SSCAN Technologies
 Provincial Controls
 Atlas Alloys
 Transcat
 Transcat
 SPR Controls Systems Ltd.
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 Provincial Controls
 Lakeside Controls
 Bestobell Canada
 Provincial Controls
 Cambridge Controls
 Brian Controls
 Transcat
 Romatec
 Romatec
 Alpha Controls & Instrumentation
 Willer Engineering
 Transcat

Manufacturer / Tradename

Qualimetrics
 Quantum
 R.M. Young
 Ralston
 Ralston
 Ray
 Raytek
 RCM Industries
 RdF
 REBS
 Research Control Valves
 Resistoflex
 REXA
 Rexcon
 RGS
 RIMCO - Raingauges
 RIS
 RMS Instruments - CDA
 Robbins Myers
 Roberts Mfg. Inc.
 Robertshaw
 Rochester Instrument Systems
 Rohrbach Cosasco Systems
 Ronan
 Rosemount
 Rosemount Analytical
 Rosemount Analytical
 Rosemount Combustion Control
 Rosemount RS3 Systems
 Rotomation
 Rotronic
 Royce Instruments
 Ruska Instrument Corp. - USA
 Ruskin (Control Dampers)
 Rustrak
 S.P.S. Instrument Services
 Sample Technologies Inc. (STI)
 Sarasota
 Scanivalve Corporation - USA
 Schlumberger
 Schrader Bellows
 Scully Electronic systems
 Seacor
 Sealed Unit Parts
 Sensall
 Sensidyne
 Sensidyne Gas Monitors
 Sensortech Systems Inc.
 Servomex
 Setra
 Shand & Jurs
 Shimadzu
 Shimpco
 Sieger
 Siemens
 Siemens Process Analyzers
 Sierra Monitor
 Sierra Monitor
 Signet Scientific
 Signet Scientific
 Sigrist-Photometer Co. - Switzerland
 Silometer
 Simpson
 Skinner
 Smar International

Local Sales Representative

Transcat
 Transcat
 Campbell Scientific (Canada) Corp.
 Transcat
 elenex Ltd.
 Brian Controls
 Transcat
 Cambridge Controls
 Willer Engineering
 Campbell Scientific (Canada) Corp.
 Lakeside Controls
 Sharp Valve & Instrumentation
 Controls
 elenex Ltd.
 Syber Systems Inc.
 Campbell Scientific (Canada) Corp.
 Transcat
 Technel Engineering Inc.
 U & I Supply
 G.L. Stebbins
 PMP Instrumentation
 Sharp Valve & Instrumentation
 Armatek Controls
 Industrial Projects
 Rosemount Instruments
 Rosemount Instruments
 Transcat
 Romatec
 Lakeside Controls
 elenex Ltd.
 Alpha Controls & Instrumentation
 PMP Instrumentation
 Technel Engineering Inc.
 G.L. Stebbins
 Transcat
 Sarnia Piping Specialties
 CB Engineering
 SPR Controls Systems Ltd.
 Technel Engineering Inc.
 Sarnia Piping Specialties
 TubeTech
 SPR Controls Systems Ltd.
 Transcat
 Transcat
 Alpha Controls & Instrumentation
 Novatech
 Transcat
 Novatech
 Novatech
 Alpha Controls & Instrumentation
 Sharp Valve & Instrumentation
 Novatech
 Transcat
 Westech
 Alpha Controls & Instrumentation
 Willer Engineering
 Controls
 Transcat
 Brian Controls
 Hardie Industrial Services Inc.
 Lisle-Metrix Ltd.
 Endress + Hauser
 Transcat
 Cantech Controls
 G.L. Stebbins

Manufacturer / Tradename

Smartline
Smartline
Smith Valve
Sno-Trik
Solartron
Solomat
SOR
South-West Meters
Sparling
Speedomax
SPM
SPS Fibre Form Enclosures
Stabilflo
Stahl
Statham
STI
Strahman
Sugino
Swagelok Tube Fittings
Swingwirl
Systematix
T.B. Woods
TA Instruments
Tavis Corporation - U.S.A.
Taylor Hand Actuated Pressure Calibrator
TDC-3000
Techmation
Techne
Technipower
Tegam
Tegam
Tektronix
Tel-Tru
Tel-Tru
Tel-Tru Thermometers
Teledyne Analytical
Teledyne Combustion Efficiency Analyzer
Telematic
Testoterm
Texas Analytical Controls Inc.
Texas Electronics - Raingauges
Texas Sampling Inc.
The Electron Machine Corporation
Theben
Thermax
Thermo Electric
Thermo Electric - Calibrators
Thermo Kinetics
Thermo-Environmental
Thermon
Thermox
Thunder Scientific Corp.
TIF
Time Electronics
TLV
Tokheim
Torbar Flowmeters Inc.
Tower-Gard
Trademark Manufacturing Inc.
Transmation
Transmation
Transtector Systems
Trerice
Tripp-Lite
Trueline Valves

Local Sales Representative

Brian Controls
Honeywell
Atlas Alloys
Huron Valve & Fittings
Westech
Transcat
Industrial Projects
Sarnia Piping Specialties
Brian Controls
Leeds & Northrup, Canada
Transcat
Sarnia Piping Specialties
Neles-Jamesbury
Alpha Controls & Instrumentation
Sarnia Piping Specialties
elenex Ltd.
Cantech Controls
elenex Ltd.
Huron Valve & Fittings
Endress + Hauser
Willer Engineering
elenex Ltd.
Westech
Technel Engineering Inc
Transcat
Honeywell
Lakeside Controls
Transcat
Transcat
Brian Controls
Transcat
Transcat
Brian Controls
Transcat
Hardie Industrial Services Inc.
Armatek Controls
Transcat
Willer Engineering
Transcat
Vermeer Engineering
Campbell Scientific (Canada) Corp.
Bestobell Canada
Industrial Projects
Davis Controls
Brian Controls
Armatek Controls
Transcat
Provincial Controls
SSCAN Technologies
PMP Instrumentation
Willer Engineering
SSCAN Technologies
Transcat
Transcat
TubeTech
Willer Engineering
Industrial Projects
Lisle-Matrix Ltd.
G.L. Stebbins
Canrols
Transcat
Cantech Controls
U & I Supply
Transcat
Conval Equipment

Manufacturer / Tradename

TSI
 Tytronics Inc.
 U.S. Gauge
 U.S. Gauge
 Unimeasure
 United Electric
 United Electric
 United Sciences Inc.
 Universal
 Universal Analyzers
 Universal Enterprises
 Unomat
 Unomat
 Vaccon Vacuum
 Vaisala
 Vaisala - RH, Barometric Pressure
 Valhalla
 Valtek
 Vanessa
 Varec
 Variomag
 Vector-Vid
 Velan
 Veris
 Versatile Instruments
 Versatile Measuring Instruments
 Viatran
 Vista
 Vitec
 Viz
 W.E. Anderson
 Walker Scientific
 Wallace & Tiernan
 Wallace & Tiernan - Pressure Calibrators
 Warren Jones Engineering - England
 Warrick
 Waterman Industries - USA
 Watson McDaniel
 Waugh
 Weed
 Weksler Instruments
 Westech
 Westlock Controls
 Whesso Varec
 Whipps Inc. - USA
 Whitey Valves
 Whitman
 Wika
 Wilkerson
 Williams Instrument Co.
 Williamson
 Winters Gauges
 Wodex
 Wood's
 Woodhead
 Worcester Controls
 Y-Z Industries
 Yokogawa
 Young Environmental
 Zook
 Zullig

Local Sales Representative

Willer Engineering
 Novatech
 Brian Controls
 Transcat
 SPR Controls Systems Ltd.
 Brian Controls
 Cambridge Controls
 Willer Engineering
 Alpha Controls & Instrumentation
 Willer Engineering
 Transcat
 SPR Controls Systems Ltd.
 Transcat
 Provincial Controls
 Transcat
 Campbell Scientific (Canada) Corp.
 Transcat
 Cantrols
 Westburne Lytle
 Westech
 Endress + Hauser
 Transcat
 Westburne Lytle
 Alpha Controls & Instrumentation
 Sharp Valve & Instrumentation
 SPR Controls Systems Ltd.
 Willer Engineering
 Scientific Transcat
 Transcat
 Transcat
 Cantech Controls
 Transcat
 J & M Engineering & Sales Ltd.
 Transcat
 Lisle-Metrix Ltd.
 Davis Controls
 Lisle-Metrix Ltd.
 G.L. Stebbins
 Alpha Controls & Instrumentation
 Cantech Controls
 Baker Instruments Ltd.
 Westech
 Atlas Alloys
 Westech
 Lisle-Metrix Ltd.
 Huron Valve & Fittings
 Davis Controls
 Sharp Valve & Instrumentation
 Transcat
 Willer Engineering
 Brian Controls
 Provincial Controls
 Alpha Controls & Instrumentation
 U & I Supply
 elenex Ltd.
 U & I Supply
 Westech
 Transcat
 SSCAN Technologies
 Brian Controls
 Bestobell Canada

- Notes -

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