

# ANNUNCIATOR

MAY 1995



SARNIA



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*50th Anniversary*



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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  
MAY ANNUNCIATOR is June 16, 1995. Please forward information  
to the editor by that date in order to have items updated.

**NOTE:** Dinner meeting for MAY is at the DANTE CLUB.

The Dante Club Hall is at 1330 London Road in Sarnia.

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## *"Written on a Roll Chart"*

*Reading this, one gets the impression that Howard was once again getting some heat for his editorial comment. It is unlikely that this would phase him.*

### **Scene**

*A miserable attic apartment. It is night, and the only illumination is from a smoking candle, insecurely held by a wine bottle on the most elderly of tables. In one shadowy corner, a straw mattress, leaking at every seam. On the wall, a few tattered garments, Beneath the only window, a tangle of cordage. The whole atmosphere one of poverty and neglect, heightened by the activity of rodents scurrying about on their multiple errands, and the chill wind which seems to rattle the whole house, making the candle flicker and recover.*

*Seated at the table, an unkempt, graying figure, clad in a ill assorted variety of clothing, each piece disputing violently with the others as to weave and pattern, but all somehow blending in a general appearance of old age and decrepitude; the security of the whole ensemble owing more to the safety pin than the needle. The figure is voraciously eating a frugal newspaper wrapped meal, whilst enduring the unblinking scrutiny of a large, gaunt, cat seated nearby. The figure speaks.*

*(Continued on Page 11)*

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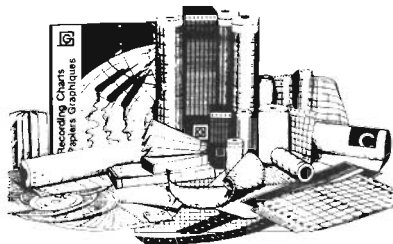
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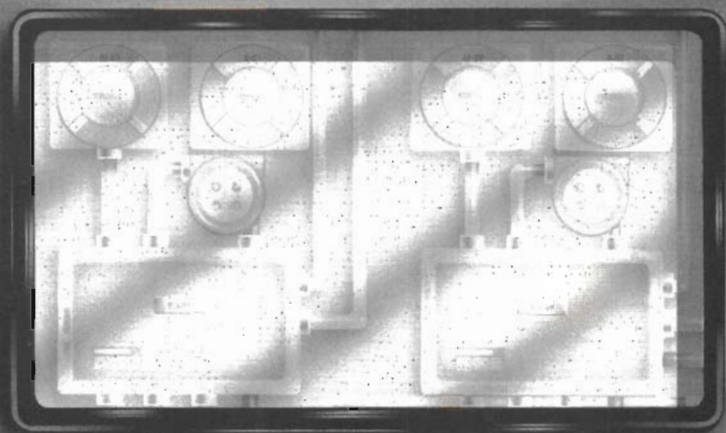
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**Graybeard**

"Good creature, it availeth not to use  
A feline stare, as though to hypnotize  
Some fragment of this all too scanty meal  
In your ravenous clutch.  
Far better if you,  
With your in-born skills and active frame  
Would hunt, and catch and garner substance  
From that unnumbered busy, furry, tribe  
Which nightly jostle for the paltry crumbs  
That few and seldom 'scape my eager grasps."

"The literary trade was ever thus,  
Its chief rewards remain intangible.  
A certain fame within my humble sect  
To whom my efforts are in some small way,  
A voice that crieth in the wilderness,  
Bringing our modest grievances to light,  
To give the low man on the totem pole  
At least a hearing with those higher up."

"Indeed, quite selfishly, I must admit  
That I pursue this literary course  
For reasons different that the world may think.  
Nay! Neither worldly goods nor gratitude  
Could sway me to endure.  
But once I saw my vapourings in print  
The passion grew upon me like a drug  
Which I cannot resist."

"On a publication day  
This wretched background fully vanishes,  
Erased by rampant pride of authorship.  
So are we doomed to constant frugality  
Allayed each moon by one brief ecstasy."

"Roll on, O printing presses, round and round  
And bring, at least, one heart a joy profound."

*Here a knock is heard at the door. Two cloaked figures enter, close the door, peer out the window into the street, and seemingly satisfied, turn to greet the author, who speaks.*

"Good friends, I bid you welcome heartily.  
With every shred of hospitality  
My lean conditions offer. I regret  
The bareness of my larder ill affords  
More than a shadow of that ill-used word.  
But then, you two, of all my scattered ilk,  
Best understand the reason for my lack,  
You know full well that since these many moons,

(Continued on Page 28)

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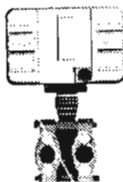
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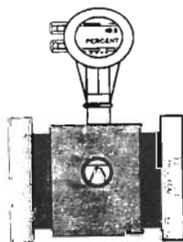
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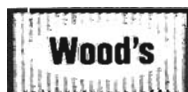
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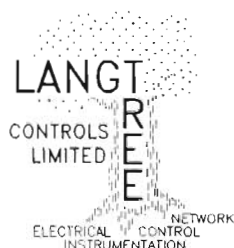


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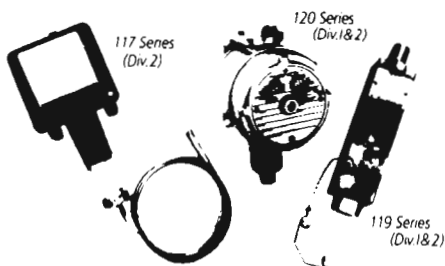
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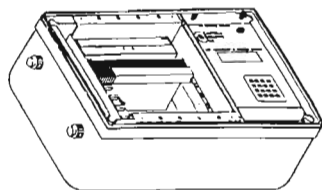
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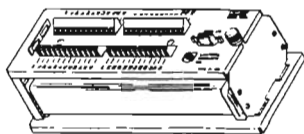


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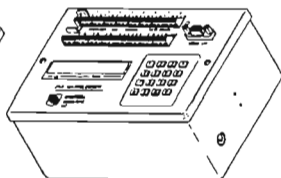
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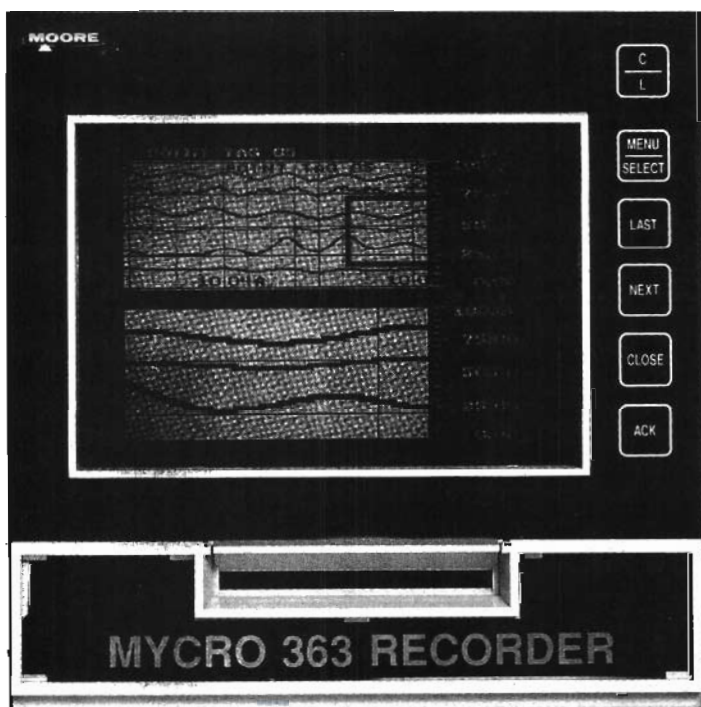
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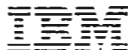
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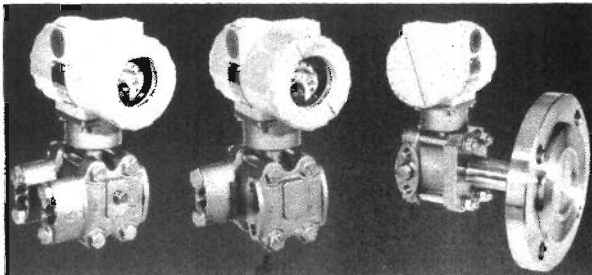
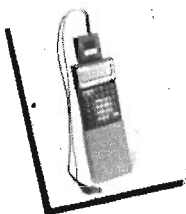
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**First Figure**

The stern of all my trousers has grown slack."  
"Waste not our time with windy platitudes,  
Our business is of serious import.  
The treasury of our local magazine,  
Low at the best of times, it now careens  
On the brink of bankruptcy.  
We scarce can find the needful wherewithal  
To put our final issue on the street.  
Further, we fear your latest article  
Is such that will readily offend  
The friends whose kindly generosity,  
Has set us up in business."

"With regret we must reject this item.  
Never fear, another season looms ahead of us,  
And we will publish on a grander scale.  
New revenue will flow into our till  
The Bailiffs will no longer pass us by  
With halting step and calculating eye."

**Graybeard.**

"I bow to your decision gentlemen;  
This painful cup I drain with all the grace  
My wounded soul can muster.  
The evil days which do beset our treasury  
Compel this thing.  
For those who cannot pay the piper  
Cannot afford to make the welkin ring!"

**Second Figure**  
(Peering from  
window).

"Worse news indeed! Methinks I see below  
A mob of clamouring angry citizens,  
Armed with tar and copious fluttered feathers.  
Methinks your poisoned pen has roused their ire  
And soon they come to drag you from your lair."

**Graybeard.**

"Mayhap 'tis so! But tremble not, my friends,  
This persecution has its usefulness.  
Assault upon our persons cannot help  
But bring on lavishly notoriety,  
The like of which we need.  
However, the caress of boiling pitch  
Would benefit us not.  
Discretion bids us seek another roost  
Before these poor surroundings get too hot."

*Thunderous knocks and footsteps on the stairs. The three struggle with the cordage at the window, finally untangling a rope ladder which they drop outside and descend. The cat leaps upon the unfinished meal. The*

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## MEMBER RECORD CHANGE

This form is designed to facilitate your request for changes in your member record. In order to stay in touch with you, ISA needs to know when you move or change jobs. Also, ISA would like to upgrade your member status if you qualify.

Name \_\_\_\_\_ (Last) \_\_\_\_\_ (First) \_\_\_\_\_ (Middle)  
ISA Member Number: \_\_\_\_\_ Day-time Phone Number: \_\_\_\_\_

Check all changes that you are requesting:

- ☐ Change my address, phone number and/or company (Complete Part 1)  
☐ Change my section affiliation (Complete Part 2)  
☐ Apply for Life Member/Life Fellow Status (Complete Part 3)  
☐ Apply for Senior Member Status

### PART 1: MOVING?

PLEASE CHANGE MY ADDRESS, COMPANY NAME AND/OR PHONE NUMBER:

Preferred  
Mailing  
Address

☐ Home  
☐ Company

Please provide your address exactly as you wish it to appear on our official records.

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Also provide the following information:

Company Name: \_\_\_\_\_  
Company Telex: \_\_\_\_\_

### PART 2: CHANGING SECTIONS?

PLEASE TRANSFER ME:

From \_\_\_\_\_ Section To \_\_\_\_\_ Section

### PART 3: APPLYING FOR LIFE MEMBER/LIFE FELLOW STATUS?

PLEASE CHANGE MY STATUS TO LIFE MEMBER/LIFE FELLOW: (You must meet both qualifications below.)

- ☐ I have retired from full-time employment.  
☐ I have been a regular Member, Senior Member, Fellow or Honorary Member for twenty (20) or more years.  
(Years as an Associate or Student member do not count toward the 20-year requirement).  
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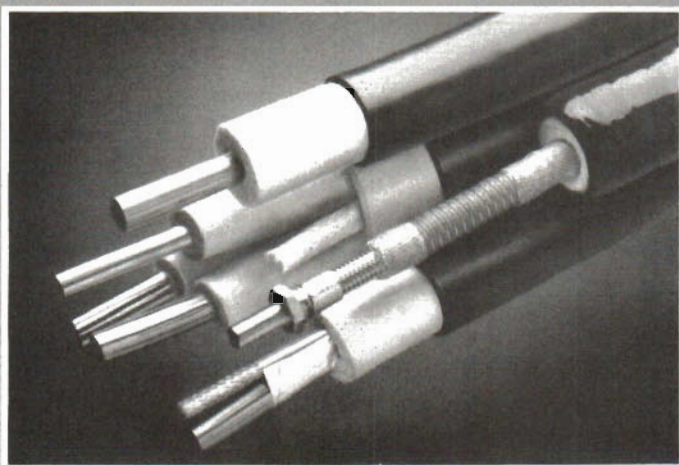
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We were born before television, before penicillin, before polio shots, frozen foods, Xerox, plastic, contact lenses, frisbees and the pill.

We were before radar, credit cards, split atoms, laser beams and ball point pens, before pantyhose, dishwashers, clothes dryers, electric blankets, air conditioners, drip dry clothes – and before man walked on the moon.

We got married first and then lived together, how quaint can you be?

In our time closets were for clothes, not for "coming out of", bunnies were small rabbits and rabbits were not Volkswagens, designer jeans were scheming girls named Jean or Jeannie, and having a meaningful relationship meant getting along well with our cousins.

We thought "fast" food was what you ate during lent, and "outer space" was the back of the Riviera Theater.

We were before "house-husbands", computer dating, dual careers and commuter marriages. We were before "day-care centers", group therapy and nursing homes. We never heard of "FM radios", tape decks, electric typewriters, artificial hearts, word processors, and yogurt. For us, time-sharing meant togetherness, not computers or condominiums: a "chip" meant a piece of wood: hardware meant hardware, and software wasn't even a word.

In 1940 "Made in Japan" meant junk and the term "making out" referred to how you did on your exam. Pizzas, MacDonald's and instant coffee were unheard of...

We hit the scene when there were 5 and 10¢ stores, where you bought things for five and ten cents. Sanders or Wilsons sold ice cream cones for a nickel or a dime. For one nickel you could ride a street car, make a phone call, buy a Pepsi or enough stamps to mail one letter and two postcards. You could buy a new Chevy Coupe for \$600.00 but who could afford one: a pity too, because gas was 11¢ a gallon!!!

In our day, cigarette smoking was fashionable, grass was mowed, coke was a cold drink, pot was something you cooked in, and rock music was a grandma's lullaby.

We were certainly not before the difference between the sexes was discovered but we were surely before the "sex change": we made do with what we had, and we were the last generation that was so dumb as to think you needed a husband to have a baby!!

No wonder we are so confused and there is such a generation gap today!!!

**BUT WE SURVIVED!!! WHAT BETTER REASON TO CELEBRATE.**

NOTE: This speech was given by Gerald Wilbanks, International President of ISA, in Sarnia on March 27, 1995.

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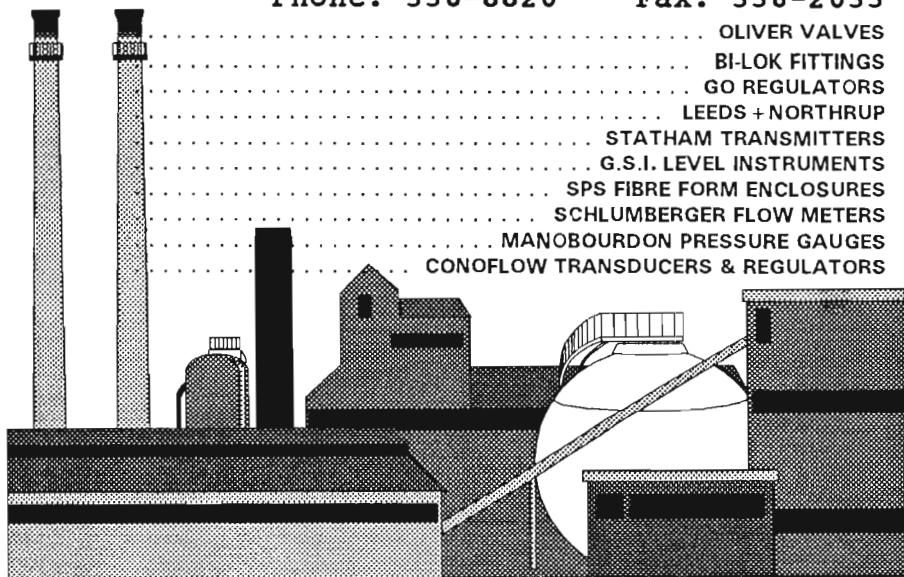
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Working closely with Dresser's manufacturing facility in Burlington, Contro Valve Inc. is your source for Dresser's Masoneilan®, Consolidated®, Hancock®, Dewrance®, and Nilcor® valves & instrumentation.

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Contro Valve Inc. is a customer-focused organization that will provide the maximum level of service and support that our valued Ontario-based customers expect from a 1st class Manufacturer's Representative.

We look forward to a long and successful association in Ontario with Contro Valve Inc.



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Fax: (905) 607-2560

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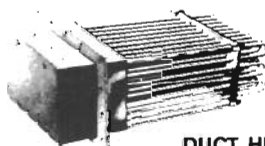
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Rugged steel, sizes to 24" x 35". Watt densities to 25 w/in<sup>2</sup> any voltage.



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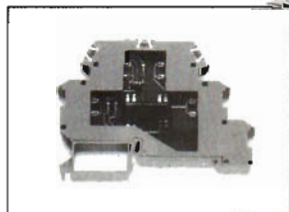
These DIN-rail mounted, modular blocks feature dead-front construction and captive screw-clamp termination for safe, reliable installation — in a snap. Phoenix Contact has the broadest line of multi-function wiring devices and feed-thru terminal blocks in the industry.

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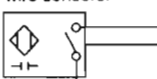


SMD technology allows relay isolation and contact ratings up to 3A in a terminal block only 1/4 inch (6.2 mm) wide.

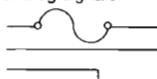
Better space utilization for fused circuits.



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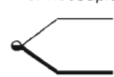
Fuse protection on analog signals.



Circuit testing or troubleshooting.



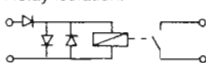
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# "Did You Know?"

## Kates Award

The Sarnia Section has won the Kates Award for the 1993 / 1994 season. This is the third time that we have won this award. Congratulations to everyone that helped put the report together! Good Work!

## Engineering Week

The engineering week display was at the Lambton Mall last month. Thank you to all the people who took the time to man the booth and a special thanks to all of the organizations who provided the equipment for the display.

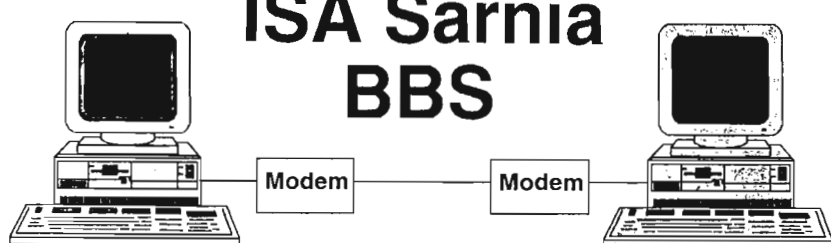
Does anyone know what happened to the candy dish and ARJAY proximity alarm that we have used in the display in the past years? We have not been able to locate it and we would like to return it to its owner.

## 50th Anniversary Dinner

As you know, this is the 50th anniversary of the ISA. There will be a number of events planned throughout the year, both locally and nationally. We hope that you enjoyed the last dinner meeting.

## Golf Tournament

Plans are moving forward rapidly for the first annual ISA Golf Tournament. Make sure you get your foursome registered early if you are planning to attend. We hope to see you there!



The diagram shows two computer setups, each consisting of a monitor, a system unit, and a keyboard. A line connects the two system units, passing through two boxes labeled 'Modem'.

# ISA Sarnia BBS

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## **!! IMPORTANT ANNOUNCEMENT !!**

### **AFFECTING ALL NELES-JAMESBURY CUSTOMERS**

**Effective November 1, 1994,  
Summit Controls Ltd.  
became the exclusive Neles-Jamesbury  
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Summit Control Ltd. is a new employee-owned company, composed of experienced valve professionals with a strong Neles-Jamesbury background. This company has more than 125 years of cumulative experience in the industrial process control marketplace, and is committed to maximizing customer service. We intend to achieve this by listening actively to our customer base.

Since this change will directly affect you as a Neles-Jamesbury customer, we seek your input and suggestions as we work in partnership to provide you with the best possible service.

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# "ANNOUNCEMENTS"

*1st Annual*



*Sarnia Section*

## GOLF TOURNAMENT

**DATE:** June 16, 1995

**PLACE:** St. Clair Parkway

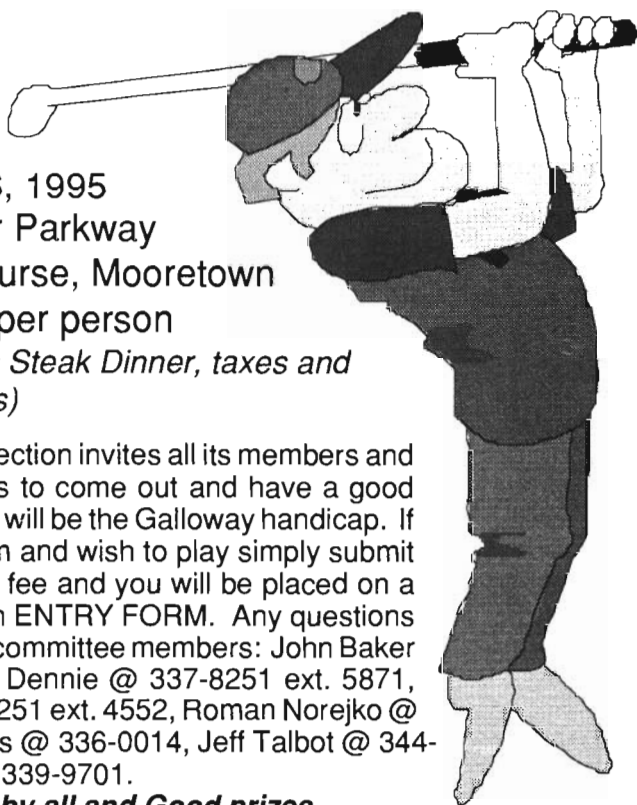
Golf Course, Mooretown

**COST:** \$50.00 per person

*(includes Steak Dinner, taxes and  
Gratuities)*

The Sarnia ISA Section invites all its members and prospective members to come out and have a good time. Scoring system will be the Galloway handicap. If you are not on a team and wish to play simply submit your name and entry fee and you will be placed on a team. Enclosed is an ENTRY FORM. Any questions contact the following committee members: John Baker @ 339-9701, Randy Dennie @ 337-8251 ext. 5871, Ron Thurier @ 337-8251 ext. 4552, Roman Norejko @ 339-4291, Gary Coles @ 336-0014, Jeff Talbot @ 344-5271, David Lyon @ 339-9701.

***Good time by all and Good prizes.***



# NEWS RELEASE

## ABB INSTRUMENTATION

ABB Kent Taylor's Modcell 2050 single loop controller is an affordable, modern, high density, 3X6 controller with all the functionality required for most single loop applications. Housed in less than 8" behind the panel depth is ramp/soak, totalizer, on-demand auto-tune, and seven forms of pid control.

Modcell 2050 eliminates 90% of the signal conditioners used because of an isolated universal analog input that accepts RTD, thermocouple, mV, volts, slidewire, and mA inputs. Analog I/O may be zero based signals and have spans as high as 50 mA.

---

## elenex Ltd. / Axiom Technologies

Elenex entered the marketplace in 1991, in conjunction with RHF Controls Systems Ltd., a company that provided systems design and integration services. Our embryo business evolved quickly, and despite some growing pains, we soon established a solid reputation as automation specialists. In February 1993, to better enable us to support growth in the Tri-County area, we formed an affiliation with London Airpower Limited, an automation distributor that has been serving the London area for over 15 years.

In May of 1994 **elenex Ltd.** ceased to be involved in the systems integration and design business and began to concentrate its' full efforts in the area of automation distribution. With this new focus it became very evident that our greatest successes would be realized in the sales and service of small and select group of product lines. In the past year our affiliate company opened a new facility in London with a fully functional training centre to educate our customers in the effective application of these products.

With our new direction and streamlining of operations it became obvious that a full merger with London Airpower would further assist our progress and fuel future growth. A new name seemed appropriate in light of this new phase in our evolution since both companies have become a single legal entity. **Effective May 1/95 we will be opening our new Windsor branch in Rhodes Industrial Park and changing both the elenex and London Airpower names to**

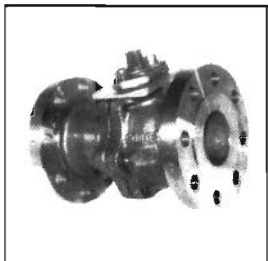
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# USING THE SARNIA SECTION BBS - Part 3

This series of articles is intended to provide basic instructions about the BBS commands and identify short cuts to make your time on-line more productive. I hope you are beginning to understand the organisation of information and files on the BBS. It is very typical of most BBS's.

Most commands can be executed by typing in the first letter of the command. These are called Hot Keys. When you call the BBS, you start in the Main Board Conference #0. Type "J" plus [Enter] to Join another Conference. The Conference Menu lists all of the conferences that are available, except Main Board. These are numbered and organised by topics so you can focus on groups of information. Each conference has messages about its topic, such as FLOW. Type 17 at the conference selection prompt to select the FLOW conference. The Main Menu remains the same. The prompt at the bottom of the screen shows the active conference. There are a number of shortcuts for conference navigation. If you know the conference number that you would like to join, type J [space] and the conference number (J 17) plus [Enter] at the main menu prompt. At the conference join prompt, just type the number of the next conference you would like to join. There is no need to return to the Main Board conference to select the next conference. Type A [Enter] to Abandon any conference and return to the Main Board conference.

Conferences access can be limited to certain security levels or passwords. Non ISA members do not have access to ISA Executive and Newsletter conferences. Each conference can have it's own File area, Bulletins and Introduction. Most of our files are in the Main Board conference.

The main purpose for Conferences is to contain messages pertaining to a specific topic. If you enter a message in the FLOW Conference about a flow measurement problem, you can expect other callers interested in Flow measurement to look in that conference. If conference messages were passed to other ISA BBS's, the topics would have to match. Each caller can use the SELECT command, to pick which conferences are automatically scanned for messages at login. Select also determines which conferences are scanned by the QWK command.

The most frequently used message commands are explained next. At the main menu type "E" to enter a new message (be sure to join the conference first). Press the <enter> key for "ALL", addressed to all callers, or a specific name for a personal message. Enter a title for the message subject. Type "N" for no message security or "R" for recipient only (private message readable by you or the recipient and the sysop). Type the message text. Press the <escape> key when you are finished typing the message text. A text entry command menu will appear at the bottom of the screen. Press "S" to send the message, "A" to abort the message and return to the main menu, "C" to continue the message at the last line, "F" to go to full screen editor, "U" to upload a text file into the body of the message that has been composed off-line, "SA" to send with an attached text file, and "H" for help about the commands.

The BBS phone number is (519) 541-0427.

Brian Smith

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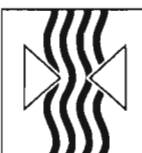
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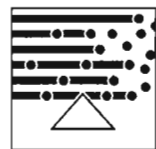
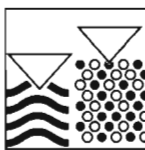
### FLOW



Magnetic Flowmeters:  
Vario/Tech/Speed Exi-mags,  
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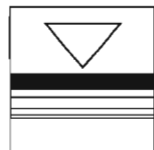


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# Meeting Dates

## MEMBERSHIP DINNER MEETINGS

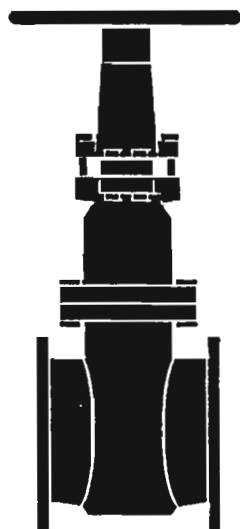
Date	Place
September 26, 1994	Drawbridge Inn
November 28, 1994	Drawbridge Inn
January 30, 1995	Drawbridge Inn
March 27, 1995	Drawbridge Inn
May 29, 1995	Dante Club

**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	Summit Controls

**Time:** 7:00 p.m.



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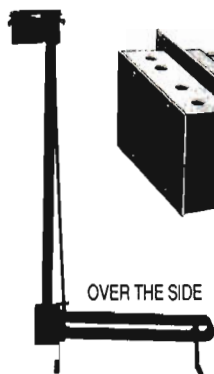
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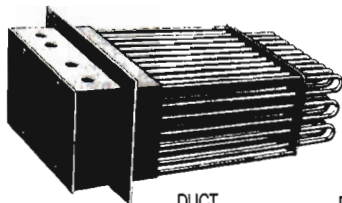
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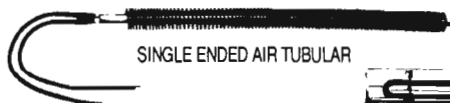
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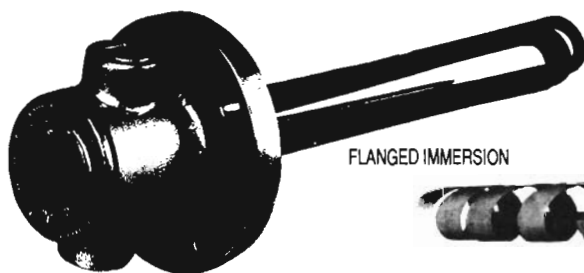
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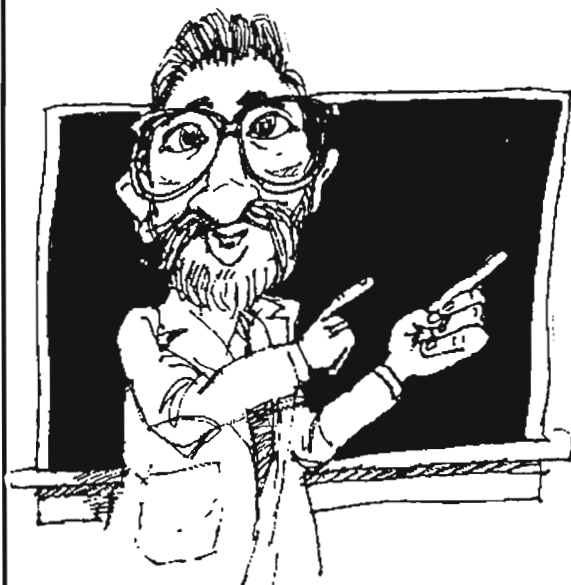
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Cocktails @ 6:00

Dinner @ 7:00



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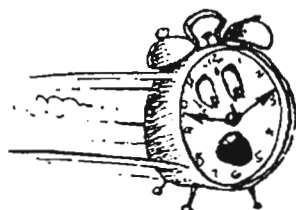
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## ISA Sarnia Section March Dinner Meeting Highlights

On Monday, March 27, 1995 at the March Dinner Meeting, the ISA Sarnia Section celebrated the 50th Anniversary of ISA. The festivities included door prizes, displays and the presence of a number of Past Presidents as special guests. One of our guest speakers was Amby Upfold, a three time Past President of the Sarnia Section, who spoke to us about the origins of the Sarnia Section. I would like to thank Amby for his efforts in making the evening very enjoyable. Our second guest speaker was the International President of ISA, Gerald Wilbanks. Gerald is extremely personable and entertained us with a comparison between "yesterday" and the fast paced technical lifestyle of today.

In keeping with this year's break with tradition, we again held our meeting at a different establishment, this time enjoying the hospitality of the Dante Club. We have scheduled our May meeting at the Dante Club as well, and look forward to another delicious meal. I believe that everyone is in agreement that in order to avoid confusion, it would be much better to have all of our dinner meetings at the same location. This is my intent for next year's meetings, and I am open to any comments you may have. Please feel free to pass your ideas along.

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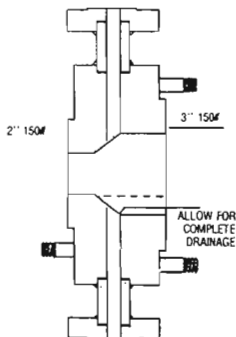
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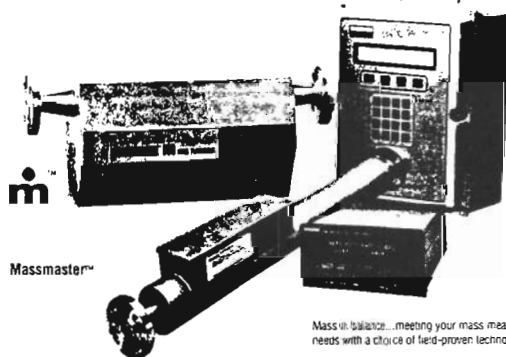
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- Plug-In Shunt Diode Safety Barriers
- Eicon Instruments, Isolators

- High Density Intrinsically Safe Isolated Barriers
- Transformer Isolated Barriers and Signal Conditioning

### TEST MEASUREMENT AND CALIBRATION INSTRUMENTS

- Deadweight Testers
- Druck CSA Intrinsically Safe Portable Digital Pressure Indicators and Calibrators
- Digital Pressure Gauges
- Druck Portable Digital High Pressure Hydraulic Calibration Systems
- Pocket Digital Pressure Gauges
- Unomat Smart Loop Calibrator for Milliamperes
- A.S.L. Resistance Thermometry Bridge
- A.S.L. Temperature Calibration Baths
- A.S.L. Standards Psychrometer

- Unomat Frequency Tester & Calibrators
- Piston Gauges
- Druck Multichannel Portable Digital Pressure Indicator and Calibrator
- Druck Precision Pressure Controller/Calibrators
- 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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## INSTRUMENT SOCIETY OF AMERICA

This form may be used by any interested person wanting to join ISA or ISA International, including students. For assistance, contact ISA Member & Customer Services at (919) 549-8411.

Please type or use block letters. Sign and date below, in Section 3.

## Membership Form

1

Name ☐ Male ☐ Female Birthdate \_\_\_\_\_

Company Name (first names) (middle initial) Division/Works \_\_\_\_\_

Position/Title \_\_\_\_\_

☐ 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 \_\_\_\_\_

City \_\_\_\_\_

State/Province \_\_\_\_\_ Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Telephone (include area code or country/city code) \_\_\_\_\_ FAX \_\_\_\_\_ Telex \_\_\_\_\_

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
- ☐ O: Marketing or Sales
- ☐ 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) \$ \_\_\_\_\_
  - ☐ Student Member: \$9 US (Limited Benefits) \$ \_\_\_\_\_
  - ☐ Division Membership: \$5 US each. \$ \_\_\_\_\_
  - ☐ Industrial Computing Society Membership (reg. \$55): \$30 \$ \_\_\_\_\_
- must be an ISA member.
- Total Amount Due \$ \_\_\_\_\_

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- ☐ Check ☐ Money Order
  - ☐ American Express ☐ Eurocard ☐ MasterCard ☐ Visa
- Acct # \_\_\_\_\_ Exp. Date \_\_\_\_\_

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Mail completed form and payment to: Instrument Society of America  
Member & Customer Services  
PO Box 3561  
Durham, North Carolina 27702  
USA

If paying by credit card, fax to: (919) 549-8288.

4

### Automation & Technology Divisions

- ☐ (A) Analysis\*
- ☐ (C) Robotics & Expert Systems
- ☐ (D) Computer Technology\*
- ☐ (E) Open Systems Interconnection
- ☐ (H) Process Measurement & Control\*
- ☐ (I) Maintenance
- ☐ (J) Test Measurement\*
- ☐ (M) Automatic Control Systems\*
- ☐ (N) Telemetry & Communications
- ☐ (P) Electro-optics
- ☐ (W) Management\*

### Industries & Sciences Divisions

- ☐ (B) Aerospace Industries\*
- ☐ (F) Mining & Metals
- ☐ (G) Chemical & Petroleum Industries\*
- ☐ (K) Construction and Design\*
- ☐ (L) Pulp & Paper Industry\*
- ☐ (O) Power Industry\*
- ☐ (R) Food & Pharmaceutical Industries\*
- ☐ (T) Textile Industry
- ☐ (U) Automotive & Vehicular
- ☐ (X) Water & Wastewater Industries
- ☐ (Y) Glass & Ceramics Industries
- ☐ (Z) Marketing & Sales\*

\* Students are entitled to one free membership each in the Automation & Technology and Industries & Sciences Divisions. Please choose and mark from the asterisked selections.



## SPEC (Sarnia) Limited

1550 Confederation St.  
Sarnia, Ontario N7W 1A3

Tel. (519) 336-2405  
Fax (519) 336-1177

Stocking Distributor For:



- Level Controls
- RF/Capacitance
- Vibration Monitoring and Control
- I/P - P/I Controls



- The Heat Tracing Specialists

### BROOKS INSTRUMENT

- Rotameters
- Positive Displacement Meters
- Turbine Meters
- Mass Flow Meters
- Inventory Management System



- The Instrument Heating Specialists

### CANCOPPAS LIMITED

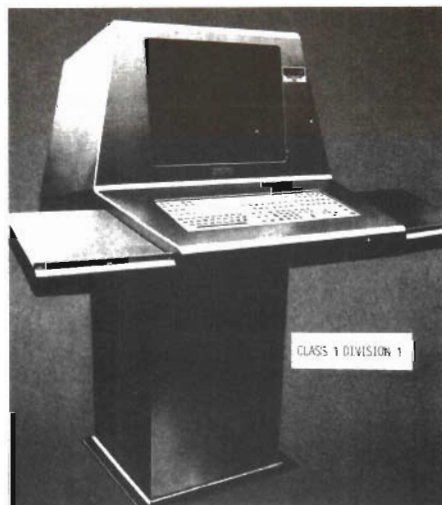


- Epic Waste Water Samplers
- Foxcroft Chionne Analyzers
- Regal Gas Chlorinators
- Royce Instruments
- MSR - Magmeters

### ENVIRONMENTAL PRODUCTS

- Oil Absorbent Products
- Oil Skimming Devices
- Drums & Accessories
- Permanent Harbour Boom
- Epic Waste Water Samplers
- ADI Pressure/Vacuum Gas Sampling Pumps
- Royce Instruments

- Rupture Disc
- Check Valves
- Line Blinds



## CYBER SYSTEMS INC.

TEL. 905-792-6677 FAX. 905-792-7742

### PRODUCT LIST

- MTL • Intrinsically Safe Barriers
- A.H. Emery • Hydraulic Load Cell Weighing Systems
- Fuller • Electronic and Pneumatic Liquid Filling Systems
- Hiltcraft • IS Earth Proving Unit • for tanker trucks etc.
- RGS • Intrinsically Safe Valves
- Larad • Unique, Full-bore Valves and Instrument Isolators
- Expo Safety Systems, Purging and Pressurisation

For Div 1 and Div 2, the Mini-X and Mini-Z -Purge Systems are fully pneumatic in operation, and conform to North American Standards, NFPA 496-1993. They are acceptable to Ontario Hydro, for installation in Ontario.

### TYPICAL APPLICATIONS

Computer Monitors & Terminals.  
Programmable Controllers.  
19" Rack Apparatus.  
Panels & Switchgear.

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.*

## Manufacturer / Tradename

3-D  
3M Circuit Tracer Kit  
A.H. Emery  
A.W. Sperry  
Accutech  
Acme Flo  
ACR Systems  
Acromag  
Acrotech  
Action Instruments  
Action Instruments  
Action Instruments  
Advanced Pollution Instrumentation (API)  
AEMC  
AFE  
AGM Electronics Inc.  
Air Flow  
Airsca  
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  
Anarad  
Anderson Greenwood  
API Meters  
Apollo  
Appalachian Controls  
Applied Automation  
Argus Hi Performance Ball Valves  
ARI  
Arjay  
Armatek  
Armstrong  
Armtec  
ASCO  
ASCO  
ASCO  
ASCO  
Ascolectric (OEM)  
Ashcroft  
Ashcroft-Dresser  
Ashford Valve  
Astro International  
Atkins  
Auma Electric Actuators  
Autocal  
Autoclean

## Local Sales Representative

Alpha Controls & Instrumentation  
Transcat  
Syber Systems Inc.  
Transcat  
Brian Controls  
Neles-Jamesbury  
Alpha Controls & Instrumentation  
Willer Engineering  
Transcat  
Cambridge Controls  
Heaters Controls & Sensors Ltd.  
Ovantum Sales  
Westech  
Transcat  
Axiom Technologies Ltd.  
Vermeer Engineering  
Transcat  
SSCAN Technologies  
TubeTech  
Baker Instruments Ltd.  
Transcat  
Alpha Controls & Instrumentation  
Transcat  
Cambridge Controls  
Axiom Technologies Ltd.  
Provincial Controls  
Brian Controls  
SSCAN Technologies  
Transcat  
Westech  
Brian Controls  
Brian Controls  
Brian Controls  
Hardie Industrial Services Inc.  
Transcat  
Vermeer Engineering  
Transcat  
Vermeer 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  
Transcat  
G.L. Stebbins  
Leeds & Northrup, Canada  
Leeds & Northrup, Canada

**Manufacturer / Tradename**

Autotech  
 Azonix  
 B & K  
 B/W Controls  
 Babbitt International Inc.  
 Bacharach  
 Bacharach  
 Bacharach - Hand Held Instruments  
 Badger Meter  
 Badger Meter - Research Control Valves  
 Bailey Controls  
 Baldwin Environmental Inc.  
 Barber-Colman  
 Barnant  
 Barnant  
 Baumann Control Valves  
 Beamex  
 Bebo Industries  
 Beckman Industrial  
 BEHA  
 BEI  
 Bellofram  
 Bellofram  
 Berthold  
 Beta  
 Bi-Lok Fittings  
 Biccotest  
 Biddle  
 Bin-Master  
 Bio-Tek  
 Bios  
 Bios International  
 BLH Electronics  
 Blue White  
 BOILER-GARD  
 Bonney Forge  
 Brandt  
 Brandt Instruments  
 Branson  
 Brian  
 Bristol Babcock  
 Brooklyn Thermometer  
 Brooks Instrument  
 BS & B  
 Burkert Contromatic  
 Burkert Contromatic  
 Cajon Pipe Fittings  
 Cal  
 Canadian Meter  
 Cantech Systems  
 Cash-Acme  
 Cashco Canada  
 Cashco Canada  
 CEA  
 Cel Instruments  
 Cellex  
 Cellex  
 Celtek  
 Centerline Butterfly Valves  
 Century Valve  
 Cerabar  
 Chandler  
 Chatam Controls  
 Chem-Tec  
 Chemtrol  
 Chessell  
 Clif Mock  
 Colder  
 Computer Keyboard Systems (CKS)

**Local Sales Representative**

Davis Controls  
 Transcat  
 Transcat  
 J & M Engineering & Sales Ltd.  
 G.L. Stebbins  
 Brian Controls  
 SSCAN Technologies  
 Transcat  
 J & M Engineering & Sales Ltd.  
 Lakeside Controls  
 TubeTech  
 Novatech  
 Davis Controls  
 Heaters Controls & Sensors Ltd.  
 Transcat  
 Conval Equipment  
 Transcat  
 Controls  
 Transcat  
 Transcat  
 Willer Engineering  
 Conval Equipment  
 Romatec  
 Westech  
 Transcat  
 Sarnia Piping Specialties  
 Transcat  
 Transcat  
 Regional Process Equipment  
 Transcat  
 SSCAN Technologies  
 Brian Controls  
 CB Engineering  
 Brian Controls  
 Lisle-Matrix Ltd.  
 Atlas Alloys  
 Willer Engineering  
 SPR Controls Systems Ltd.  
 Transcat  
 Brian Controls  
 Sharp Valve & Instrumentation  
 Transcat  
 Spec Sarnia Limited  
 Romatec  
 Provincial Controls  
 Provincial Controls  
 Huron Valve & Fittings  
 Davis Controls  
 G.L. Stebbins  
 Cantech Controls  
 Westburne Lytle  
 Cambridge Controls  
 Provincial Controls  
 SSCAN Technologies  
 SSCAN Technologies  
 Armatek Controls  
 Spec Sarnia Limited  
 Controls  
 Atlas Alloys  
 Brian Controls  
 Endress + Hauser  
 Transcat  
 Heaters Controls & Sensors Ltd.  
 Brian Controls  
 U & I Supply  
 Willer Engineering  
 Westburne Lytle  
 Davis Controls  
 CB Engineering

**Manufacturer / Tradename**

Conant Controls  
 Conders  
 Conductive Technologies  
 Conoflow  
 Consolidated  
 Consolidated Controls  
 Consolidated Controls - U.S.A.  
 Control Instruments Corp.  
 Control Microsystems  
 Controlair Inc.  
 Controlotron  
 Cooper Instruments  
 Cooper Valve  
 Cox  
 Crowcon  
 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  
 Delavan  
 Delphian  
 Delta C Technologies  
 Delta-M  
 Deltabar  
 Deltapilot  
 Detector Electronics  
 Devar  
 DewPro  
 Dewrance  
 DGH  
 Dianachart  
 Dickson  
 Digitec  
 Dillon  
 Dopak  
 Dover Gas Technologies  
 Draeger  
 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  
 Eagle Signal  
 Eaton Consolidated Controls - USA  
 Eaton IDT  
 ECD

**Local Sales Representative**

Industrial Projects  
 Transcat  
 Cantech Controls  
 Sarnia Piping Specialties  
 Contro Valve Inc.  
 Transcat  
 Technel Engineering Inc.  
 Willer Engineering  
 Brian Controls  
 Cambridge Controls  
 Westech  
 Transcat  
 Atlas Alloys  
 Brian Controls  
 Regional Process Equipment  
 Campbell Scientific (Canada) Corp.  
 Willer Engineering  
 CB Engineering  
 Davis Controls  
 Lisle-Matrix Ltd.  
 Controls  
 Bestobell Canada  
 Cambridge Controls  
 Technel Engineering Inc.  
 Transcat  
 Leeds & Northrup, Canada  
 Transcat  
 Spec Sarnia Limited  
 Transcat  
 Transcat  
 Bestobell Canada  
 Armatek Controls  
 Romatec  
 Veronics  
 Brian Controls  
 Endress + Hauser  
 Endress + Hauser  
 CB Engineering  
 Cantech Controls  
 Endress + Hauser  
 Contro Valve Inc.  
 Alpha Controls & Instrumentation  
 Alpha Controls & Instrumentation  
 Transcat  
 Brian Controls  
 Brian Controls  
 Westburne Lytle  
 Veronics  
 SSCAN Technologies  
 SPR Controls Systems Ltd.  
 Transcat  
 SPR Controls Systems Ltd.  
 Leeds & Northrup, Canada  
 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  
 Davis Controls  
 Technel Engineering Inc.  
 Cantech Controls  
 Novatech

**Manufacturer / Tradename**

ECD  
 Echotel  
 ECS Control Techniques  
 EG & G Flow Technology Inc.  
 EIT Inc.  
 EI-O-Matic  
 Elcon Instruments  
 Electromatic  
 Elremco Timers - England  
 EMCO  
 Emission S.A.  
 Encoder  
 Endress + Hauser  
 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  
 Eurotherm  
 Exotherm  
 Expo Safety Systems  
 Exttech Instruments  
 F.B. Leopold - USA  
 F.W. Bell  
 F.W. Murphy  
 Fabco Air  
 Fairchild  
 FCI  
 Fike Canada Inc.  
 Firerod Cartridge Heaters  
 Fischer & Porter  
 Fischer & Porter  
 Fisher Controls  
 Fisher Research  
 Fisons Instruments  
 Flow Meter Co. - England  
 Flow-Lin Corporation  
 Flowline  
 Flowseal Butterfly Valves  
 Flowtek Valves  
 Fluid Data/Amscor  
 Fluidic  
 Fluke  
 Fluke  
 Foxboro - Measurement, Instruments, Parts  
 Foxboro Analytical Group  
 FUJI  
 Fulier  
 G.C. Industries  
 G.S.I.  
 Galtek  
 Gamma Silometer  
 Gefran  
 General Controls  
 General Eastern  
 General Metal Works  
 General Resistance  
 General Resource (Isomatic Corp.)  
 Geokon  
 GGOSCO Engineering  
 GGOSCO Needle Valves  
 GGOSCO Valves

**Local Sales Representative**

Transcat  
 Provincial Controls  
 Vermeer Engineering  
 CB Engineering  
 Vermeer Engineering  
 Westburne Lytle  
 SPR Controls Systems Ltd.  
 Heaters Controls & Sensors Ltd.  
 Lisle-Metrix Ltd.  
 Davis Controls  
 SSCAN Technologies  
 Axiom Technologies Ltd.  
 Regional Process Equipment  
 Davis Controls  
 Provincial Controls  
 Axiom Technologies Ltd.  
 Westburne Lytle  
 Brian Controls  
 Novatech  
 SSCAN Technologies  
 Spec Sarnia Limited  
 Bestobell Canada  
 Lisle-Metrix Ltd.  
 Transcat  
 Davis Controls  
 Heaters Controls & Sensors Ltd.  
 Heaters Controls & Sensors Ltd.  
 Syber Systems Inc.  
 Novatech  
 Lisle-Metrix Ltd.  
 Transcat  
 Cantech Controls  
 Davis Controls  
 Regional Process Equipment  
 Willer Engineering  
 Brian Controls  
 Zesta Engineering  
 Hardie Industrial Services Inc.  
 TubeTech  
 Lakeside Controls  
 Transcat  
 Westech  
 Lisle-Metrix Ltd.  
 G.L. Stebbins  
 Brian Controls  
 Atlas Alloys  
 Provincial Controls  
 Armatek Controls  
 Brian Controls  
 SPR Controls Systems Ltd.  
 Transcat  
 Provincial Controls  
 Vermeer Engineering  
 Heaters Controls & Sensors Ltd.  
 Syber Systems Inc.  
 Brian Controls  
 Sarnia Piping Specialties  
 Romatec  
 Endress + Hauser  
 SPR Controls Systems Ltd.  
 Neles-Jamesbury  
 Willer Engineering  
 SSCAN Technologies  
 Transcat  
 G.L. Stebbins  
 Campbell Scientific (Canada) Corp.  
 Provincial Controls  
 Westburne Lytle  
 Hardie Industrial Services Inc.

**Manufacturer / Tradename**

GLA Elettroniva  
 Global  
 GMD  
 GO Proximity Switches  
 GO Regulators  
 GP:50 New York Ltd.  
 Gralab  
 Granucor  
 Granuflow  
 Granumet  
 Graseby / STI  
 Great Plains Industries  
 Greyline Instruments  
 H. O. Trerice  
 H.D. Baumann Control Valves  
 Hammel Dahl  
 Hancock  
 Hanna Instruments  
 Hansen Quik Connects  
 Hartman-Technica  
 Hartmann & Braun  
 Hattersley Heaton Bellows Sealed Valves  
 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  
 Horiba  
 Huntron  
 Hy-Cal  
 Hydriil  
 Hygrolog  
 IBM Industrial  
 IC Controls  
 IDEC  
 IET  
 Illinois Instruments  
 Imi-Cash Valve Inc.  
 Imperial Eastman  
 Imperial Eastman  
 Imperial Eastman  
 Industrial Scientific Corporation  
 Industrial Sensors  
 Infiltek  
 Ingold  
 Inor  
 Intelligent Controls  
 Intellitron  
 Intellution  
 Interface  
 Interlink  
 International Sensor Technology  
 Interscan  
 Interscan  
 Intertec  
 Ionics Instrument Division  
 Ircon  
 Ishida/Craft

**Local Sales Representative**

SPR Controls Systems Ltd.  
 Transcat  
 SSCAN Technologies  
 Lakeside Controls  
 Sarnia Piping Specialties  
 SPR Controls Systems Ltd.  
 Transcat  
 Endress + Hauser  
 Endress + Hauser  
 Endress + Hauser  
 CB Engineering  
 Armatek Controls  
 Controls  
 U & I Supply  
 Conval Equipment  
 Neles-Jamesbury  
 Contro Valve Inc.  
 SSCAN Technologies  
 Provincial Controls  
 Transcat  
 Westech  
 Atlas Alloys  
 Brian Controls  
 Transcat  
 SPR Controls Systems Ltd.  
 Transcat  
 Sharp Valve & Instrumentation  
 Syber Systems Inc.  
 Davis Controls  
 Transcat  
 Lisle-Matrix Ltd.  
 SSCAN Technologies  
 Atlas Alloys  
 Davis Controls  
 Cantech Controls  
 Brian Controls  
 Provincial Controls  
 Transcat  
 Alpha Controls & Instrumentation  
 Transcat  
 Davis Controls  
 Cantech Controls  
 Endress + Hauser  
 CB Engineering  
 J & M Engineering & Sales Ltd.  
 Axiom Technologies Ltd.  
 Transcat  
 Veronics  
 G.L. Stebbins  
 Provincial Controls  
 U & I Supply  
 Axiom Technologies Ltd.  
 SSCAN Technologies  
 Heaters Controls & Sensors Ltd.  
 Ovantum Sales  
 Westech  
 Alpha Controls & Instrumentation  
 SPR Controls Systems Ltd.  
 Cantech Controls  
 CB Engineering  
 Willer Engineering  
 Vermeer Engineering  
 Industrial Projects  
 Brian Controls  
 SSCAN Technologies  
 TubeTech  
 Veronics  
 Willer Engineering  
 Atlas Alloys

**Manufacturer / Tradename**

ISI  
IST  
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  
Kessler Ellis  
Ketema - McCrometer  
Ketema - Schutte & Koerting  
Keystone Controls  
Kinetics Systems Corp. - USA  
Kinetrol  
Kinetrol Actuators  
King Instrument  
Kip  
Kistler-Morse  
Kitz Actuators & Valves  
Klinger  
KNF Neuberger  
Kobold  
Kotron  
Kruss Optronic  
KTM  
KTM  
Kurz  
Kurz  
LAGCO Flumes - USA  
Land  
Land - Analyzers  
Larad  
Leader  
Leaderline  
Leaderline  
Lear Siegler  
Lee-Dickens Ltd. - England  
Leeds & Northrup  
Legris  
Legris Fittings  
LEOPOLD  
Lewis  
LFE Instruments - USA  
LI-COR  
LMI  
LMI

**Local Sales Representative**

Heaters Controls & Sensors Ltd.  
SSCAN Technologies  
Armatek Controls  
Romatec  
CB Engineering  
Lisle-Metrix Ltd.  
Romatec  
Cambridge Controls  
Romatec  
Neles-Jamesbury  
Transcat  
Transcat  
Romatec  
Brian Controls  
Transcat  
CB Engineering  
Cambridge Controls  
Conval Equipment  
Lisle-Metrix Ltd.  
CB Engineering  
Controls  
Westburne Lytle  
Transcat  
Westech  
Rosemount Instruments  
Transcat  
CB Engineering  
U & I Supply  
Campbell Scientific (Canada) Corp.  
G.L. Stebbins  
Transcat  
Brian Controls  
Brian Controls  
Brian Controls  
Sharp Valve & Instrumentation  
Technel Engineering Inc.  
Provincial Controls  
Hardie Industrial Services Inc.  
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Provincial Controls  
SSCAN Technologies  
Associated Valve  
Regional Process Equipment  
Brian Controls  
Transcat  
Lisle-Metrix Ltd.  
Transcat  
Westech  
Syber Systems Inc.  
Transcat  
Brian Controls  
Honeywell  
Romatec  
Lisle-Metrix Ltd.  
Sarnia Piping Specialties  
Axiom Technologies Ltd.  
Provincial Controls  
Lisle-Metrix Ltd.  
Transcat  
Lisle-Metrix Ltd.  
Campbell Scientific (Canada) Corp.  
Novatech  
U & I Supply



## Manufacturer / Tradename

Love  
Lumenite Electronic Company  
M point  
M-System  
M-Tek  
MaCWeld  
Madison  
Madison  
Magnetrol  
MagTech  
Major  
Manobourdon  
Marsh  
Martel  
Masoneilan  
Max  
Max 1000  
MCF Ball Valves  
MCS  
MDI  
Mead  
Meeco Inc.  
Mercoid  
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 Systems  
Mini-Z Purge Systems  
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  
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Nassau Instrument  
NBS  
Neles  
Neotronics  
Newman Hattersley  
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TubeTech  
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Heaters Controls & Sensors Ltd.  
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  
Leeds & Northrup, Canada  
Brian Controls  
Hardie Industrial Services Inc.  
Transcat  
U & I Supply  
Syber Systems Inc.  
Syber Systems Inc.  
Davis Controls  
Transcat  
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  
Transcat  
Atlas Alloys  
Bestobell Canada  
Transcat  
Romatec  
Contro Valve Inc.  
Endress + Hauser  
Bestobell Canada  
Conval Equipment

**Manufacturer / Tradename**

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

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Provincial Controls  
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Cantech Controls  
Bestobell Canada  
Sarnia Piping Specialties  
Westech  
Axiom Technologies Ltd.  
SSCAN Technologies  
SSCAN Technologies  
Provincial Controls  
Atlas Alloys  
Transcat  
Transcat  
SPR Controls Systems Ltd.  
G.L. Stebbins  
Provincial Controls  
Cambridge Controls  
Willer Engineering  
Veronics  
TubeTech  
SPR Controls Systems Ltd.  
Transcat  
Brian Controls  
Hardie Industrial Services Inc.  
Cantech Controls  
Lisle-Matrix Ltd.  
Provincial Controls  
Transcat  
Axiom Technologies Ltd.  
Atlas Alloys  
Regional Process Equipment  
Romatec  
SPR Controls Systems Ltd.  
Transcat  
Lisle-Matrix Ltd.  
Conval Equipment  
Heaters Controls & Sensors Ltd.  
Armatek Controls  
Vermeer Engineering  
Willer Engineering  
J & M Engineering & Sales Ltd.  
Provincial Controls  
Novatech  
Leeds & Northrup, Canada  
Transcat  
Westburne Lytle  
Endress + Hauser  
Spec Sarnia Limited  
Endress + Hauser  
Provincial Controls  
Lakeside Controls  
Bestobell Canada  
Provincial Controls  
Cambridge Controls  
Brian Controls  
Transcat  
Romatec  
Romatec  
Alpha Controls & Instrumentation  
Willer Engineering  
TechTranscat

**Manufacturer / Tradename**

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 Quantum  
 R.M. Young  
 Ralston  
 Ralston  
 Ray  
 Raytek  
 RCM Industries  
 RdF  
 REBS  
 REK RKC  
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 Resistoflex  
 Rexcon  
 RG  
 RIMCO - Raingauges  
 Ring-o Valves  
 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  
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 Ruska Instrument Corp. - USA  
 Ruskin (Control Dampers)  
 Rustrak  
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 Scully Electronic systems  
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 Shand & Jurs  
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 Shimpco  
 Sieger  
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 Siemens Process Analyzers  
 Sierra Monitor  
 Sierra Monitor  
 Signet Scientific  
 Signet Scientific  
 Sigrist-Photometer Co. - Switzerland  
 Silometer  
 Simpson  
 Skinner  
 Smar International  
 Smartline  
 Smartline

**Local Sales Representative**

Transcat  
 Transcat  
 Campbell Scientific (Canada) Corp.  
 Transcat  
 Axiom Technologies Ltd.  
 Brian Controls  
 Transcat  
 Cambridge Controls  
 Willer Engineering  
 Campbell Scientific (Canada) Corp.  
 Heaters Controls & Sensors Ltd.  
 Lakeside Controls  
 Sharp Valve & Instrumentation  
 Axiom Technologies Ltd.  
 SSyber Systems Inc.  
 Campbell Scientific (Canada) Corp.  
 Atlas Alloys  
 Transcat  
 Technel Engineering Inc.  
 U & I Supply  
 G.L. Stebbins  
 Spec Sarnia Limited  
 Sharp Valve & Instrumentation  
 Armatek Controls  
 Industrial Projects  
 Rosemount Instruments  
 Rosemount Instruments  
 Transcat  
 Romatec  
 Lakeside Controls  
 Axiom Technologies Ltd.  
 Alpha Controls & Instrumentation  
 Spec Sarnia Limited  
 Technel Engineering Inc.  
 G.L. Stebbins  
 Transcat  
 Sarnia Piping Specialties  
 SPR Controls Systems Ltd.  
 Technel Engineering Inc.  
 Sarnia Piping Specialties  
 TubeTech  
 SPR Controls Systems Ltd.  
 Transcat  
 Transcat  
 Regional Process Equipment  
 Alpha Controls & Instrumentation  
 Novatech  
 Transcat  
 Novatech  
 Novatech  
 Alpha Controls & Instrumentation  
 Process Equipment  
 Sharp Valve & Instrumentation  
 Novatech  
 Transcat  
 Westech  
 Alpha Controls & Instrumentation  
 Willer Engineering  
 Controls  
 Transcat  
 Brian Controls  
 Hardie Industrial Services Inc.  
 Lisle-Matrix Ltd.  
 Endress + Hauser  
 Transcat  
 Cantech Controls  
 G.L. Stebbins  
 Brian Controls  
 Honeywell

**Manufacturer / Tradename**

Smith Valves  
 Sno-Trik  
 Solartron  
 Solomat  
 SOR  
 South-West Meters  
 Sparling  
 Speedomax  
 SPM  
 SPS Fibre Form Enclosures  
 Stabilflo  
 Stahl  
 Statham  
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 Strahman  
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 Swagelok Tube Fittings  
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 Tavis Corporation - U.S.A.  
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 Technipower  
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 Tegam  
 Tektronix  
 Tel-Tru  
 Tel-Tru  
 Tel-Tru Thermometers  
 Teledyne Analytical  
 Teledyne Combustion Efficiency Analyzer  
 Telematic  
 Tempco  
 Tenor Industrial Control  
 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  
 Tricentric  
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 TSI  
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 Sarnia Piping Specialties  
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 Transcat  
 Sarnia Piping Specialties  
 Neles-Jamesbury  
 Alpha Controls & Instrumentation  
 Sarnia Piping Specialties  
 Axiom Technologies Ltd.  
 Regional Process Equipment  
 Cantech Controls  
 Axiom Technologies Ltd.  
 Huron Valve & Fittings  
 Endress + Hauser  
 Willer Engineering  
 Axiom Technologies Ltd.  
 Westech  
 Technel Engineering Inc  
 Transcat  
 Honeywell  
 Lakeside Controls  
 Transcat  
 Transcat  
 Brian Controls  
 Transcat  
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 Brian Controls  
 Transcat  
 Brian Controls  
 Transcat  
 Hardie Industrial Services Inc.  
 Armatek Controls  
 Transcat  
 Willer Engineering  
 Heaters Controls & Sensors Ltd.  
 Heaters Controls & Sensors Ltd.  
 Transcat  
 Vermeer Engineering  
 Campbell Scientific (Canada) Corp.  
 Bestobell Canada  
 Industrial Projects  
 Davis Controls  
 Brian Controls  
 Armatek Controls  
 Transcat  
 Provincial Controls  
 SSCAN Technologies  
 Spec Sarnia Limited  
 Willer Engineering  
 SSCAN Technologies  
 Transcat  
 Transcat  
 TubeTech  
 Willer Engineering  
 Industrial Projects  
 Lisle-Matrix Ltd.  
 G.L. Stebbins  
 Controls  
 Transcat  
 Cantech Controls  
 U & I Supply  
 Westburne Lytle  
 Transcat  
 Willer Engineering  
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**Manufacturer / Tradename**

U.S. Gauge  
U.S. Gauge  
Unimeasure  
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United Electric  
United Sciences Inc.  
Universal  
Universal Analyzers  
Universal Enterprises  
Unomat  
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Vaccon Vacuum  
Vaisala  
Vaisala - RH, Barometric Pressure  
Valhalla  
Valtek  
Valvtech  
Varec  
Variomag  
Vector-Vid  
Velan  
Veris  
Versatile Instruments  
Versatile Measuring Instruments  
Viatran  
Vista Scientific  
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  
Weed Instrument  
Weksler Instruments  
Westech  
Westlock Controls  
Whesso Varec  
Whipps Inc. - USA  
Whitey Valves  
Whitman  
Whittaker Electronics  
Wika  
Wilkerson  
Wilkerson Instrument Co. Ltd.  
Williams Instrument Co.  
Williamson  
Winters Gauges  
Wodex  
Wood's  
Woodhead  
Worcester Controls  
Xomox  
Y-Z Industries  
Yokogawa  
Young Environmental  
Zook  
Zullig

**Local Sales Representative**

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  
Controls  
Regional Process Equipment  
Westech  
Endress + Hauser  
Transcat  
Westburne Lytle  
Alpha Controls & Instrumentation  
Sharp Valve & Instrumentation  
SPR Controls Systems Ltd.  
Willer Engineering  
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  
Controls  
Baker Instruments Ltd.  
Westech  
Atlas Alloys  
Westech  
Lisle-Metrix Ltd.  
Huron Valve & Fittings  
Davis Controls  
Controls  
Sharp Valve & Instrumentation  
Transcat  
J & M Engineering & Sales Ltd.  
Willer Engineering  
Brian Controls  
Provincial Controls  
Alpha Controls & Instrumentation  
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