

# CONTROL

F O R T H E P R O C E S S I N D U S T R I E S



**OUR 10TH ANNUAL SURVEY NAMES THE VENDORS  
WITH THE BEST TECHNOLOGIES**



**TOUGH TIMES ARE NO TIME TO PURCHASE LACKLUSTER PRODUCTS FROM INDIFFERENT SUPPLIERS.**

**OUR 10TH ANNUAL SURVEY NAMES VENDORS WITH THE BEST TECHNOLOGIES AND RATES**

**THEIR CUSTOMER SERVICE. By Dave Fusaro, Executive Editor**

There are some things in life you can depend on. The sun will rise and set. Momentum will be conserved. The Cubs will not make the World Series. And Micro Motion will win the Coriolis Mass Flowmeter category.

Every year in the CONTROL Readers' Choice Awards there are perennial winners with overwhelming market shares (Bently Nevada in vibration instrumentation and Hoffman Engineering in enclosures also come to mind). But for the most part, it's a horse race in most of the 62 categories in this, our 10th annual Readers' Choice Awards.

As we have since the awards' inception, CONTROL magazine asked its readers to rate the products and services of process control suppliers. These are the people whose opinions really count: They have the first-hand experience with how these instruments function, and they carefully spend their companies' currently scarce funds for instrumentation and control. Any supplier who finds its name on the following pages—even fourth or fifth in a hotly contested category—can rightfully be proud of the accolade that implies.

Write-in ballots were mailed last October to 5,000 randomly

selected readers of CONTROL magazine. Responses were received from about 500 of them. The prime directive is: "Please identify by name the best supplier, in your opinion, in each of the following technology categories."

Product selection is a very personal process. It involves the inevitable analysis of cost versus benefit, ease of use, performance, reliability, service life, and so forth. Furthermore, it depends heavily on the particular application. The same product, although it performed well in previous applications, may not be selected the next time if the application requirements change. Every customer's list of critical specifications or features and their priority of importance may differ. Thus, rather than try to set up criteria for the Readers' Choice Awards, CONTROL simply asked its readers to tell us whose technologies work best in their particular process applications.

We also asked readers to rank their suppliers' customer service on a scale of 1 (for poor) to 5 (excellent). Those rankings are in a separate table.

Every year there are clear dominators. In addition to those previously mentioned, Fisher Controls annually wins the con-

trol valve category (this year with a 59% score), Rockwell the PLC and PLC programming software ones (68% and 72% respectively), Bebeco for purge systems (74%), and Belden in wire and cable (68%).

Some companies are perennial winners, even if it's a close race. Ones that have won at least the past three years in the flow and level measurement categories are Rosemount Measurement for magnetic flowmeter, pressure transmitter, resistance temperature detector, and temperature transmitter; fellow Emerson Process Management division Brooks Instrument for both positive displacement and variable area flowmeters; FCI for thermal mass flowmeter and flow switch; Panametrics for ultrasonic flowmeter; Ametek Drexelbrook for electrical property-based level gauge; Ohmart/Vega for radar level gauge; Siemens Milltronics for ultrasonic level gauge; and Mettler-Toledo for load cell.

Among the instrumentation categories, three-time winners are Rosemount Analytical for pH/ORP analyzer; MSA for ambient gas detector; Fisher for control valve; Omega Engineering for thermocouple; Raytek for infrared temperature sensor; Bently Nevada for vibration instrumentation; and Fluke for calibrator.


In the control and software categories: Rockwell for PLC, PLC software, operator interface terminal, and input/output system; Wonderware for human-machine interface software; Emerson Process Management for calibration management software; Autodesk for design and documentation software; Gensym for expert system software; Pavilion for neural network software; Intellution for SCADA software; Ametek for annunciator; Hoffman for enclosure; Bebeco for purge system; Yokogawa for recorder; and Action Instruments for signal conditioner.

Let's give credit where credit's due: Emerson Process Management or subsidiaries won in the most categories this year, 21, including the coveted process control system category.

Despite the fact that this is a quest for the best, voting requires familiarity with the products involved. So, to some extent, this is a measure of installed base. It also is not immune to sustained marketing efforts on the part of supplier organizations.

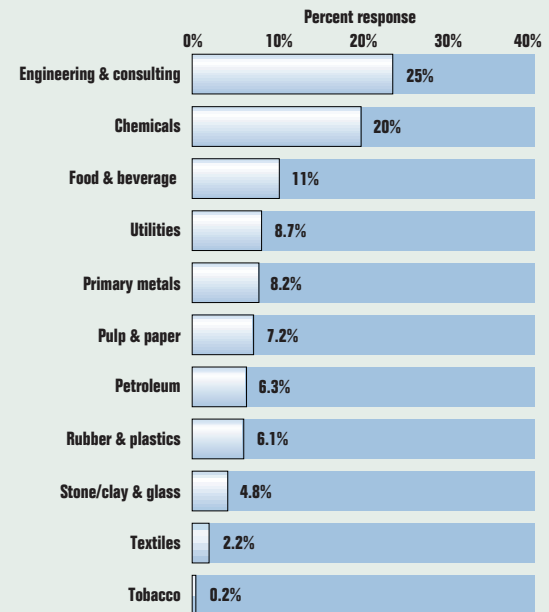
Another key measure of every supplier is customer service. Best technology and customer service are not synonymous, but sometimes the two come together to make for an especially powerful combination. That means a lot of engineers are having a positive experience with the same product.

Such is the case in software—batch control/management, where Emerson Process Management not only tops the category but has the best service score (4.6 on a scale of 5); in level gauge—radar, where Ohmart/Vega has a 4.5; and in resistance temperature detector, where Rosemount Measurement has a 4.5.

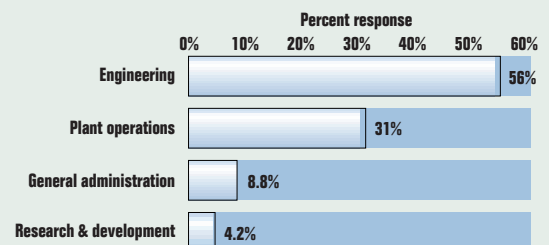
So our hats off to our winners. And our thanks to many readers who took the time to fill out that lengthy questionnaire and help to identify the suppliers that truly stand out in a crowd. 

## SURVEY RESPONDENT DEMOGRAPHICS

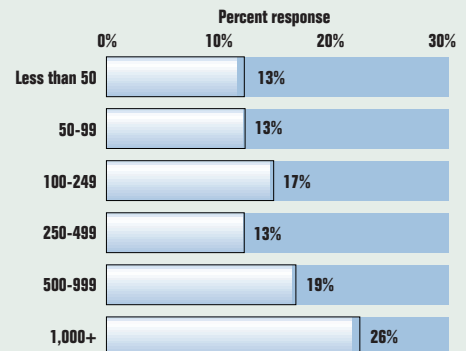
### IN WHAT INDUSTRY DO YOU WORK?



### WHAT IS YOUR PRIMARY AREA OF RESPONSIBILITY?



### WHAT IS THE TOTAL NUMBER OF EMPLOYEES AT YOUR LOCATION?



**VENDORS OFFERING EXCEPTIONAL SERVICE** (5 = EXCELLENT, 1 = POOR)**4.7**

ABB ..... Remote Terminal Unit  
 Siemens Milltronics ..... Flowmeter, Ultrasonic  
 Ohmart/Vega ..... Point Level Switch  
 Phoenix Contact ..... Signal Conditioner  
 Rockwell Automation ..... Software, SCADA  
 Rosemount Measurement ..... Thermocouple  
 Siemens ..... Remote Terminal Unit

**4.6**

Emerson Process Management .. Software, Batch Control/Management  
 FMC Smith ..... Flowmeter, Turbine  
 Ohmart/Vega ..... Level Gauge, Ultrasonic

**4.5**

Emerson Process Management ..... Software, Loop Tuning  
 Ohmart/Vega ..... Level Gauge, Radar  
 OSI Software ..... Software, SCADA  
 Pepperl+Fuchs ..... Intrinsic Safety Barrier  
 Pyromation ..... Thermocouple  
 Rosemount Measurement ..... Resistance Temperature Detector  
 Siemens ..... Process Control System  
 Weightronix ..... Weighing System/Load Cell

**4.4**

ABB ..... Flowmeter, Magnetic  
 Autodesk ..... Software, Design/Documentation  
 Fisher Controls ..... Level Gauge, Float/Displacer  
 Honeywell ..... Pressure Transmitter  
 Honeywell ..... Temperature Transmitter  
 Rittal ..... Enclosure  
 Rockwell Automation ..... Software, Process Control  
 Rosemount Measurement ..... Pressure Transmitter  
 Rosemount Measurement ..... Temperature Transmitter

**4.3**

Ametek ThermoX ..... Analyzer, Stack Gas  
 ControlSoft ..... Software, Loop Tuning  
 Emerson Process Management ..... Software, Process Control  
 Fisher Controls ..... Control Valve  
 Foxboro ..... Analyzer, pH/ORP  
 Foxboro ..... Flowmeter, Vortex  
 Hach ..... Analyzer, pH/ORP  
 Kistler-Morse ..... Weighing System/Load Cell  
 Micro Motion ..... Flowmeter, Coriolis  
 Opto 22 ..... Input/Output System  
 Perkin Elmer ..... Analyzer, Process Chromatograph  
 R. Stahl ..... Intrinsic Safety Barrier  
 Rockwell Automation ..... Industrial Computer  
 Rockwell Automation ..... Process Control System  
 Rockwell Automation ..... Remote Terminal Unit  
 Rockwell Automation ..... Software, Human-Machine Interface  
 Rosemount Analytical ..... Analyzer, Process Chromatograph  
 Rosemount Measurement .. Level Gauge, Electrical Property-Based  
 Schneider Electric ..... Software, Process Control  
 Thermo MeasureTech ..... Point Level Switch  
 Westronics ..... Recorder

**4.2**

ABB ..... Analyzer, Process Chromatograph  
 ABB ..... Process Control System  
 Bently Nevada ..... Vibration Instrumentation  
 Brooks Instrument ..... Flowmeter, Positive Displacement  
 Daniel ..... Flowmeter, Ultrasonic  
 Emerson Process Management ..... Hybrid Control System  
 Endress+Hauser ..... Point Level Switch  
 Federal Signal ..... Annunciator  
 Foxboro ..... Pressure Transmitter

Hoffman Engineering ..... Enclosure  
 Omega Engineering ..... Thermocouple  
 Rockwell Automation ..... Software, Batch Control/Management  
 Rockwell Automation ..... Terminal Block  
 Rosemount Analytical ..... Analyzer, Stack Gas  
 Rosemount Measurement ..... Flowmeter, Magnetic  
 Rosemount Measurement ..... Flowmeter, Vortex  
 Schneider Electric ..... Programmable Logic Controller  
 Thermo Orion ..... Analyzer, pH/ORP

**4.1**

ABB ..... Loop Controller  
 Acopian ..... Power Supply  
 Belden ..... Wire & Cable  
 Dell ..... Industrial Computer  
 Endress & Hauser ..... Flowmeter, Coriolis  
 Fluke ..... Portable Calibrator  
 Siemens Milltronics ..... Level Gauge, Ultrasonic  
 Moore Industries ..... Signal Conditioner  
 Rockwell Automation ..... Input/Output System  
 Rockwell Automation ..... Operator Interface Terminal  
 Rockwell Automation ..... Programmable Logic Controller  
 Rockwell Software ..... Software, PLC Programming  
 Rosemount Analytical ..... Analyzer, pH/ORP  
 Rosemount Measurement ..... Level Gauge, Radar  
 Yokogawa ..... Flowmeter, Vortex

**4.0**

ABB Entelec ..... Terminal Block  
 Acromag ..... Signal Conditioner  
 Ametek Drexelbrook ..... Level Gauge, Radar  
 Ametek Drexelbrook ..... Level Gauge, Ultrasonic  
 APC ..... Power Supply  
 Badger Meter ..... Flowmeter, Turbine  
 Brooks ..... Flowmeter, Variable Area  
 Edwards Signaling ..... Annunciator  
 Emerson Process Management .. Software, Calibration Management  
 Endress+Hauser ..... Level Gauge, Electrical Property-Based  
 FCI ..... Flow Switch  
 Foxboro ..... Flowmeter, Magnetic  
 Foxboro ..... Software, Process Control  
 GE Fanuc ..... Operator Interface Terminal  
 Gems ..... Flow Switch  
 General Monitor ..... Ambient Gas Detector  
 Honeywell ..... Analyzer, pH/ORP  
 Honeywell ..... Loop Controller  
 Intellution ..... Software, Process Control  
 Magnetrol ..... Level Gauge, Radar  
 Mettler-Toledo ..... Weighing System/Load Cell  
 Panametrics ..... Analyzer, Humidity/Moisture  
 Parker CTC ..... Operator Interface Terminal  
 Phoenix Contact ..... Intrinsic Safety Barrier  
 Phoenix Contact ..... Power Supply  
 Phoenix Contact ..... Terminal Block  
 Power One ..... Power Supply  
 Rice Lake ..... Weighing System/Load Cell  
 Rockwell Automation ..... Safety/Emergency Shutdown System  
 Sandelius ..... Thermocouple  
 Siemens ..... Analyzer, Process Chromatograph  
 Siemens ..... Programmable Logic Controller  
 Siemens ..... Software, Process Control  
 Transmotion/Altek ..... Portable Calibrator  
 Vaisala ..... Analyzer, Humidity/Moisture  
 Valtek ..... Control Valve  
 Wago ..... Terminal Block  
 Wonderware ..... Software, SCADA  
 Yokogawa ..... Flowmeter, Magnetic  
 Yokogawa ..... Pressure Transmitter

## 2002 READERS' CHOICE AWARDS



MSA'S ULTIMA

### ANALYZER, AMBIENT GAS DETECTOR

1. MSA	24%
2. General Monitor	15%
3. ABB	6%
Bacharach	6%
Det-Tronics	6%
Sensidyne	6%
Thermo GasTech	6%



SOLARTRON MOBREY'S MODEL 7828

### ANALYZER, DENSITY/CONCENTRATION

1. Solartron Mobrey	26%
2. Thermo MeasureTech	21%



PANAMETRICS' MOISTURE SERIES;  
VAISALA'S HMP 230 SERIES

### ANALYZER, HUMIDITY/MOISTURE

1. Panametrics	18%
Vaisala	18%



ROSEMOUNT'S MODEL 4081  
PH/ORP FIELDBUS

### ANALYZER, PH/ORP/CONDUCTIVITY

1. Rosemount Analytical-Emerson	31%
2. Yokogawa	12%
3. Hach	9%
4. Foxboro	7%
Great Lakes Instrument	7%
Thermo Orion	6%
Honeywell	5%



ABB'S VISTA II

### ANALYZER, PROCESS CHROMATOGRAPH

1. ABB	24%
2. Rosemount Analytical-Emerson	21%
Siemens	21%
4. Dionex	10%
Perkin Elmer	10%
6. Foxboro	7%



ROSEMOUNT'S GAS ANALYZERS

### ANALYZER, STACK GAS/EMISSIONS

1. Rosemount Analytical-Emerson	21%
2. Ametek Thermox	18%
3. Horiba Instruments	11%
4. Thermo Environmental	7%



HONEYWELL'S UDC 3300;  
SIEMENS' MODEL 353

### CONTROLLER, LOOP

1. Honeywell	23%
Siemens	23%
3. ABB	8%
Foxboro	8%
Yokogawa	8%



EMERSON'S DELTAV

### CONTROL SYSTEM, HYBRID

1. Emerson Process Management	33%
2. Honeywell	14%
3. ABB	8%
Siemens	8%
Rockwell Automation	6%



EMERSON'S DELTAV

### CONTROL SYSTEM, PROCESS

1. Emerson Process Management	27%
2. Honeywell	14%
3. ABB	10%
Foxboro	9%
Rockwell Automation	9%
6. Siemens	6%



TRICONEX'S TRICON V 9.6

### CONTROL SYSTEM, SAFETY/EMERGENCY SHUTDOWN

1. Triconex	32%
2. Rockwell Automation	18%
3. Siemens	7%



FISHER'S W8119

### CONTROL VALVE

1. Fisher Controls-Emerson	59%
2. Valtek	6%



ROCKWELL'S POWERFLEX

### ELECTRIC MOTOR DRIVE

1. Rockwell Automation	47%
2. Baldor	11%
3. ABB	8%
GE	6%
Siemens	6%

## 2002 READERS' CHOICE AWARDS



MICRO MOTION'S R SERIES

### FLOWMETER, CORIOLIS MASS

- |                         |     |
|-------------------------|-----|
| 1. Micro Motion-Emerson | 81% |
| 2. Endress+Hauser       | 13% |



ROSEMOUNT'S MODEL 8732

### FLOWMETER, MAGNETIC

- |                      |     |
|----------------------|-----|
| 1. Rosemount-Emerson | 36% |
| 2. Foxboro           | 15% |
| 3. ABB               | 8%  |
| Yokogawa             | 8%  |
| 5. Endress+Hauser    | 5%  |



AMETEK DREXELBROOK'S  
UNIVERSAL SONIC

### FLOWMETER, OPEN CHANNEL

- |                       |     |
|-----------------------|-----|
| 1. Ametek Drexelbrook | 17% |
| 2. Badger Meter       | 13% |
| 3. Isco               | 9%  |
| Siemens Milltronics   | 9%  |



BROOKS' MODEL BM10

### FLOWMETER, POSITIVE DISPLACEMENT

- |                              |     |
|------------------------------|-----|
| 1. Brooks Instrument-Emerson | 30% |
| 2. FMC Smith                 | 12% |
| 3. Badger Meter              | 9%  |
| Omega Engineering            | 9%  |
| 5. Liquid Controls           | 6%  |
| Neptune                      | 6%  |



FCI'S ST98

### FLOWMETER, THERMAL MASS

- |                              |     |
|------------------------------|-----|
| 1. FCI                       | 37% |
| 2. Brooks Instrument-Emerson | 30% |
| 3. Kurz Instrument           | 10% |



BROOKS/DANIEL'S SERIES 1200

### FLOWMETER, TURBINE

- |                              |     |
|------------------------------|-----|
| 1. Brooks Instrument-Emerson | 17% |
| 2. Daniel-Emerson            | 9%  |
| FMC Smith                    | 9%  |
| Hoffer                       | 9%  |
| 5. Badger Meter              | 7%  |
| Omega Engineering            | 7%  |



PANAMETRICS' ULTRA PURE SYSTEM

### FLOWMETER, ULTRASONIC

- |                     |     |
|---------------------|-----|
| 1. Panametrics      | 21% |
| 2. Daniel-Emerson   | 14% |
| Siemens Milltronics | 12% |
| 4. Controlotron     | 7%  |
| Endress+Hauser      | 5%  |



BROOKS' MT 3809

### FLOWMETER, VARIABLE AREA

- |                              |     |
|------------------------------|-----|
| 1. Brooks Instrument-Emerson | 42% |
|------------------------------|-----|



ROSEMOUNT'S MODEL 8800C

### FLOWMETER, VORTEX

- |                      |     |
|----------------------|-----|
| 1. Rosemount-Emerson | 37% |
| 2. Yokogawa          | 27% |
| 3. Foxboro           | 14% |
| 4. Endress+Hauser    | 6%  |



DELL'S POWER EDGE 2550

### INDUSTRIAL COMPUTER

- |                        |     |
|------------------------|-----|
| 1. Dell                | 24% |
| 2. Rockwell Automation | 17% |
| 3. Yycom               | 8%  |
| Compaq                 | 6%  |



AMETEK DREXELBROOK'S  
UNIVERSAL III

### LEVEL GAUGE, ELECTRICAL PROPERTY-BASED

- |                       |     |
|-----------------------|-----|
| 1. Ametek Drexelbrook | 28% |
| 2. Endress+Hauser     | 11% |
| 3. Bindicator         | 8%  |
| Magnetrol             | 8%  |
| Rosemount-Emerson     | 8%  |



FISHER'S W3121

### LEVEL GAUGE, FLOAT/DISPLACER

- |                            |     |
|----------------------------|-----|
| 1. Fisher Controls-Emerson | 28% |
| 2. Magnetrol               | 15% |
| 3. K-Tek                   | 8%  |
| 4. MTS                     | 5%  |

## 2002 READERS' CHOICE AWARDS



THERMO MEASURETECH'S LEVELPRO

### LEVEL GAUGE, NUCLEAR

1. Thermo MeasureTech	58%
2. Ohmart/Vega	19%
3. Ronan Engineering	11%



OHMART/VEGA'S VEGAPLUG 40;  
ROSEMOUNT'S APEX

### LEVEL GAUGE, RADAR/MICROWAVE

1. Ohmart/Vega	20%
Rosemount-Emerson	18%
3. Endress+Hauser	16%
4. Ametek Drexelbrook	11%
Saab Rosemount-Emerson	11%
6. Magnetrol	7%



ENRAF'S MODEL 854  
SAAB'S TANKRADAR MODEL 3930

### LEVEL GAUGE, TANK/INVENTORY

1. Enraf	13%
Saab Rosemount-Emerson	13%



SIEMENS MILLTRONICS' MULTIRANGER

### LEVEL GAUGE, ULTRASONIC

1. Siemens Milltronics	47%
2. Ohmart/Vega	9%
Endress+Hauser	7%
4. Ametek Drexelbrook	5%
Rosemount-Emerson	5%



ROCKWELL'S PV ETHERNET

### OPERATOR INTERFACE TERMINAL

1. Rockwell Automation	41%
2. GE Fanuc	9%
3. Parker CTC	6%
Xycom	6%



AMETEK DREXELBROOK'S  
INTELLIPOINT RF SERIES;  
ENDRESS-HAUSER'S  
LIQUIPHANT M FTL51

### POINT LEVEL SWITCH

1. Ametek Drexelbrook	14%
Endress+Hauser	14%
2. Magnetrol	11%
3. Bindicator	7%
Ohmart/Vega	7%
Thermo MeasureTech	7%
Omega Engineering	5%



ROSEMOUNT MODEL 3051S

### PRESSURE TRANSMITTER

1. Rosemount-Emerson	56%
2. Honeywell	11%
Foxboro	9%
4. Yokogawa	6%



SOLA'S DIN RAIL-MOUNTED SUPPLIES

### POWER SUPPLY

1. Sola	23%
2. Acopian	17%
3. Lambda	12%
4. Power One	6%
APC	5%
Phoenix Contact	5%



ROCKWELL'S ALLEN-BRADLEY  
SLC500 FAMILY

### REMOTE TERMINAL UNIT

1. Rockwell Automation	14%
2. ABB	11%
Siemens	11%
4. Bristol Babcock	7%
Fisher Controls-Emerson	7%



EMERSON'S CONTROL STUDIO

### SOFTWARE, PROCESS CONTROL

1. Emerson Process Management	22%
2. Rockwell Automation	15%
3. Intellution-Emerson	10%
Honeywell	8%
5. Schneider Electric	7%
Wonderware	7%
Foxboro	5%
Siemens	5%



EMERSON'S DELTAV BATCH

### SOFTWARE, BATCH CONTROL/MANAGEMENT

1. Emerson Process Management	32%
2. Rockwell Automation	27%
3. Wonderware	15%

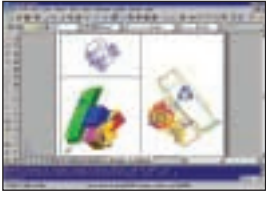


EMERSON'S ASSET  
MANAGEMENT SOLUTIONS

### SOFTWARE, CALIBRATION MANAGEMENT

1. Emerson Process Management	33%
2. Fluke	7%
Honeywell	7%

**2002 READERS' CHOICE AWARDS**



**AUTODESK'S AUTOCAD 2002 PLATFORM**

**SOFTWARE, DESIGN/DOCUMENTATION**

- |                            |     |
|----------------------------|-----|
| 1. AutoDesk                | 40% |
| 2. ABB                     | 6%  |
| Emerson Process Management | 6%  |
| Honeywell                  | 6%  |
| Integrgraph                | 6%  |
| Microsoft Visio            | 6%  |



**HYPROTECH'S HYSYS; ROCKWELL'S ARENA 5.0**

**SOFTWARE, SIMULATION**

- |                     |     |
|---------------------|-----|
| 1. Hyprotech        | 12% |
| Rockwell Automation | 12% |
| 3. Cape Software    | 8%  |



**GENSYM'S G2**

**SOFTWARE, EXPERT SYSTEM**

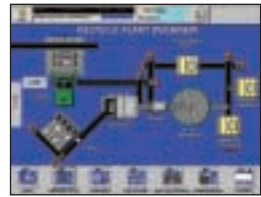
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|-------------------------------|-----|
| 1. Gensym                     | 27% |
| 2. Emerson Process Management | 18% |



**INTELLUTION'S IFIX 2.6**

**SOFTWARE, SUPERVISORY CONTROL & DATA ACQUISITION**

- |                        |     |
|------------------------|-----|
| 1. Intellution         | 23% |
| 2. Wonderware          | 14% |
| 3. Rockwell Automation | 9%  |
| Honeywell              | 8%  |
| 5. OSI Software        | 6%  |



**WONDERWARE'S INTOUCH**

**SOFTWARE, HUMAN-MACHINE INTERFACE**

- |                        |     |
|------------------------|-----|
| 1. Wonderware          | 31% |
| 2. Rockwell Automation | 23% |
| 3. Intellution-Emerson | 18% |



**RAYTEK'S LASER-SIGHTED GPS**

**TEMPERATURE SENSOR, INFRARED**

- |                   |     |
|-------------------|-----|
| 1. Raytek         | 38% |
| 2. Ircon          | 10% |
| 3. Exergen        | 7%  |
| Omega Engineering | 7%  |



**EXPERTUNE'S PID TUNER/ANALYZER**

**SOFTWARE, LOOP TUNING**

- |                               |     |
|-------------------------------|-----|
| 1. ExpertTune                 | 41% |
| 2. Emerson Process Management | 20% |
| 3. ControlSoft                | 10% |



**ROSEMOUNT'S TEMPERATURE SENSORS**

**TEMPERATURE SENSOR, RTD**

- |                      |     |
|----------------------|-----|
| 1. Rosemount-Emerson | 37% |
| 2. Pyromation        | 12% |
| Omega Engineering    | 11% |



**PAVILION'S DYNAMIC MODEL**

**SOFTWARE, NEURAL NETWORK**

- |             |     |
|-------------|-----|
| 1. Pavilion | 40% |
|-------------|-----|



**ROSEMOUNT'S MODEL 3144**

**TEMPERATURE TRANSMITTER**

- |                      |     |
|----------------------|-----|
| 1. Rosemount-Emerson | 53% |
| 2. Honeywell         | 10% |
| 3. Moore Industries  | 7%  |
| Omega Engineering    | 5%  |



**ROCKWELL'S RSLOGIX 5000**

**SOFTWARE, PLC PROGRAMMING**

- |                       |     |
|-----------------------|-----|
| 1. Rockwell Software  | 72% |
| 2. Schneider Electric | 9%  |
| 3. Siemens            | 5%  |



**OMEGA ENGINEERING'S OMEGACLAD PROBES**

**THERMOCOUPLE**

- |                      |     |
|----------------------|-----|
| 1. Omega Engineering | 19% |
| 2. Rosemount-Emerson | 13% |
| 3. Sandelius         | 7%  |
| Pyromation           | 6%  |
| Thermo Electric      | 6%  |