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INTELLIGENCE IN NUMBERS

End Users Come Together to
Pick Winners of 23rd Annual
Readers' Choice Awards

A large crowd of people, seen from an aerial perspective, is arranged to form a large number '1'. The people are wearing white shirts and dark trousers. The number '1' is composed of a vertical stem on the left and a horizontal top bar on the right. The text 'INTELLIGENCE IN NUMBERS' is overlaid in the center of the number.

INTELLIGENCE IN NUMBERS

**Control's readers come together to pick winners of
23rd Annual Readers' Choice Awards**

by Control staff



Every single interaction between customer and supplier is an opportunity for providing good solutions. After awhile, these positive moments really begin to add up.

Despite the huge effort and extreme consistency required, the best vendors almost reflexively deliver useful products and services, and continually develop and release new improvements and innovations. Consequently, over months, years and decades, they methodically build reputations for quality, and gain the elusive and precious trust of their customers in the process industries.

Many of those customers have again voted to determine the winners of *Control's* 2015 Readers' Choice Awards. As usual, about 1,000 respondents weighed in on which suppliers provided the best products and services in the main process automation disciplines, primary process industries and in nine overall product categories and 78 subcategories. The respondents include both U.S.-based and international readers of *Control's* print magazine and its ControlGlobal.com website. Each was allowed to vote for up to three vendors in each category and discipline, and then their first-, second- and third-place votes were weighted to yield a rank of up to five top suppliers in each category.

Because of their technical preeminence and unflagging support, the suppliers ranked by responses to the Readers' Choice Awards survey remain remarkably consistent year to year, even though changing groups of readers do the voting. Certainly, there's always some jockeying for position and minor reshuffling among vendors competing in the categories and subcategories due to differing respondents and their shifting vendor experiences in the past year. However, tectonic shifts in the rankings typically only happen when large process automation and control suppliers merge with other large players, gain or lose parts of their traditional businesses in spin-offs or acquisitions, carry out large reorganizations that impact how they go to market, or expand organically into new technological areas.

Undoubtedly, this year's biggest recent change of this kind was Schneider Electric's more than \$5-billion acquisition of Invensys just one year ago. Because the former Invensys was a such a long-standing pillar of the control and automation community, the process of folding it and its Avantis, Eurotherm, Foxboro, InFusion, SimSci, Triconex and Wonderware divisions and brands into its new parent company is causing some seismic waves to ripple through the Readers' Choice categories, and will likely continue to generate a few aftershocks in the coming months as readers continue to get used to the name and organizational change.

The Big Boards

For instance, while the Best in Control categories are broken down by six process automation disciplines and 10 industry verticals (Tables 1 and 2), and their results have remained mostly uniform in recent years, the 12-month-old Schneider Electric-Invensys combination appears to have already impacted the rankings. First, Schneider replaced Invensys at the top of the Safety/Emergency Shutdown category. Second, Schneider took over from Invensys in the Continuous Regulatory Control, Batch Process Automation and Continuous Sheet/Web Monitoring & Control categories.

In addition, within Safety/Emergency Shutdown, Schneider was a new winner in the Chemicals Manufacturing, Electric Power Generation, Oil & Gas Extraction and Petroleum Refining subcategories. Also, within the Supervisory Control & Data Acquisition (SCADA) category, Schneider Electric was preferred in the Electric Power Generation, Oil & Gas Extraction, Pulp & Paper Manufacturing and Water & Wastewater Processing subcategories. It seems that Schneider's acquisition is already paying technical dividends in the process industries.

Finally, within the Batch Process Automation category, Emerson Process Management and Rockwell Automation switched places from last year in the Pulp & Paper Manufacturing and Electric Power Generation subcategories, respectively. Also, ABB was a new winner in Continuous Regulatory Control's Pulp & Paper subcategory; Rockwell Automation took over in SCADA's Chemicals Manufacturing and Metals, Materials & Mining subcategories, as well as winning several other slots; and Honeywell was a new winner in SCADA's Petroleum Refining subcategory.

New Categories, New Insights

To give users in some more specialized, technical areas a chance to vote for their favorite providers, this year's Readers' Choice Awards includes a few new subcategories, which could be added because this year's survey generated enough responses in these areas for us to declare winners and runners-up.

Two new level-switch subcategories were added, including Level Switch, Mechanical and Level Switch, Ultrasonic. Also, the Pressure Switch and Temperature Switch categories have been restored after a brief absence. In addition, the Contact Radar category has been renamed Guided-Wave Radar because that name includes more products and is more recognizable and familiar to most readers.

Continuous Regulatory Control

Emerson Process Management

2. Rockwell Automation
3. Honeywell Process Solutions
4. ABB
5. Yokogawa
6. Schneider Electric
7. Siemens Industry
8. GE Intelligent Platforms

Safety/Emergency Shutdown

Schneider Electric

2. Rockwell Automation
3. Emerson Process Management
4. ABB
5. Siemens Industry
6. Yokogawa
7. HIMA
8. GE Intelligent Platforms

Batch Process Automation

Rockwell Automation

2. Emerson Process Management
3. ABB
4. Siemens Industry
5. Schneider Electric
6. Honeywell Process Solutions
7. Yokogawa
8. GE Intelligent Platforms

Sequential Logic Control

Rockwell Automation

2. Siemens Industry
3. Emerson Process Management
4. ABB
5. GE Intelligent Platforms
6. Schneider Electric
7. Honeywell Process Solutions
8. Yokogawa

Continuous Sheet/ Web Monitoring & Control

ABB

2. Honeywell Process Solutions
3. Rockwell Automation
4. Emerson Process Management
5. Schneider Electric
6. Siemens Industry
7. Yokogawa
8. GE Intelligent Platforms

Supervisory Control & Data Acquisition (SCADA)

Rockwell Automation

2. Invensys
3. Emerson Process Management
4. Honeywell Process Solutions
5. GE Intelligent Platforms
6. Siemens Industry
7. ABB
8. Schneider Electric

Table 1. Best in Control Readers Choice Awards by Process Automation Discipline



	Chemicals Manufacturing	Electric Power Generation	Food & Beverage Manufacturing	Metals, Minerals & Mining	Oil & Gas Extraction
Continuous Regulatory Control	Emerson Process Management	Emerson Process Management	Rockwell Automation	Rockwell Automation	Emerson Process Management
Batch Process Automation	Emerson Process Management	Rockwell Automation	Rockwell Automation	Rockwell Automation	Emerson Process Management
Continuous Sheet/Web Monitoring & Control	-	-	-	ABB	-
Safety/Emergency Shutdown	Schneider Electric	Schneider Electric	Rockwell Automation	Rockwell Automation	Schneider Electric
Supervisory Control & Data Acquisition	Rockwell Automation	Schneider Electric	Rockwell Automation	Rockwell Automation	Schneider Electric
Sequential Logic Control	Rockwell Automation	Rockwell Automation	Rockwell Automation	Rockwell Automation	Rockwell Automation

	Petroleum Refining	Pharmaceuticals & Life Sciences	Plastics & Rubber Manufacturing	Pulp & Paper Manufacturing	Water & Wastewater Processing
Continuous Regulatory Control	Honeywell Process Solutions	Emerson Process Management	Emerson Process Management	ABB	Rockwell Automation
Batch Process Automation	Emerson Process Management	Emerson Process Management	Rockwell Automation	Emerson Process Management	Emerson Process Management
Continuous Sheet/Web Monitoring & Control	-	-	Schneider Electric	ABB	-
Safety/Emergency Shutdown	Schneider Electric	Emerson Process Management	Rockwell Automation	Rockwell Automation	Rockwell Automation
Supervisory Control & Data Acquisition	Honeywell	Rockwell Automation	Rockwell Automation	Schneider Electric	Schneider Electric
Sequential Logic Control	Rockwell Automation	Rockwell Automation	Rockwell Automation	Rockwell Automation	Rockwell Automation

Table II. Best in Control Readers Choice Awards by Discipline and Industry

Software Strides Onward

While it's not news that software (aided by faster, cheaper and more powerful microprocessors) has been taking over traditional hardware-based tasks for many years, the ways this revolution is shaking out lately is fueling some far-reaching innovations, such as the Internet of Things (IoT), virtualized computing, cloud-based servers and other smart manufacturing strategies and technologies. Just as in other industries, these changes are having a profound and growing influence on process control and automation.

Similarly, while perennial Software category winners Emerson Process Management won four subcategories and Rockwell Automation won three, there are several new subcategory winners this year: Honeywell won in Alarm Management Software, and Emerson won in Calibration Management Software. Likewise, Schneider Electric's acquisition of Invensys also appeared to push it up in the standings in Human-Machine Interface Software and SCADA Software.

Advanced Process Control Software

- 1. Emerson Process Management
- 2. Honeywell Process Solutions
- 3. Rockwell Automation
- 4. ABB
- 5. AspenTech

Alarm Management Software

- 1. Honeywell Process Solutions
- 2. Emerson Process Management
- 3. ABB
- 4. Rockwell Automation
- 5. PAS

Asset Management Software

- 1. Emerson Process Management
- 2. ABB
- 3. Rockwell Automation
- 4. Maximo
- 5. Siemens Industry

Calibration Management Software

- 1. Emerson Process Management
- 2. Fluke
- 3. Beamex
- 4. CyberMetrics

Design/Documentation Software

- 1. Autodesk
- 2. Intergraph
- 3. Rockwell Automation
- 4. EPLAN

Human-Machine Interface Software

- 1. Rockwell Automation
- 2. Schneider Electric
- 3. Emerson Process Management
- 4. Siemens Industry
- 5. Pro-face America

Loop-Tuning Software

- 1. ExperTune
- 2. Emerson Process Management
- 3. Rockwell Automation
- 4. Control Station
- 5. Honeywell Process Solutions

Neural Network Software

- 1. Emerson Process Management
- 2. Rockwell Automation

OPC Connectivity

- 1. MatrikonOPC
- 2. Kepware Technologies
- 3. Rockwell Automation
- 4. Emerson Process Management

PLC Programming Software

- 1. Rockwell Automation
- 2. Siemens Industry
- 3. GE Intelligent Platforms
- 4. Schneider Electric
- 5. Emerson Process Management

SCADA Software

- 1. Rockwell Automation
- 2. Schneider Electric
- 3. Siemens Industry
- 4. GE Intelligent Platforms
- 5. Emerson Process Management

Simulation Software

- 1. Mynah Technologies
- 2. Emerson Process Management
- 3. Rockwell Automation
- 4. Honeywell Process Solutions
- 5. ABB



Annunciator

- 1. Ametek
- 2. Rockwell Automation
- 3. Ronan Engineering
- 4. ABB
- 5. Emerson Process Management

Industrial Computer

- 1. Rockwell Automation
- 2. Advantech
- 3. Siemens Industry
- 4. Schneider Electric

Operator Interface Terminal

- 1. Rockwell Automation
- 2. Siemens Industry
- 3. Pro-face
- 4. ABB
- 5. Red Lion

Panel Display

- 1. Rockwell Automation
- 2. Siemens Industry
- 3. Red Lion Controls
- 4. Emerson Process Management
- 5. Schneider Electric

Process Loop Controller

- 1. Rockwell Automation
- 2. Siemens Industry
- 3. Honeywell Process Solutions
- 4. Yokogawa
- 5. Emerson Process Management

Recorder

- 1. Yokogawa
- 2. Honeywell Process Solutions
- 3. Schneider Electric
- 4. ABB
- 5. Anderson Instrument

Control Rooms Founded on Hardware

While the wonderfulness of software and its groundbreaking capabilities are undeniable, it still needs to touch reality at some point, so there remain many tools that control engineers, system integrators, technicians and operators need to run their process applications safely and with optimal performance. However, because these devices don't need to evolve and be updated as often as the software and data they display, the Readers' Choice winners in this category are unfailing experts in their niches and in the eyes of their customers.

As usual, Ametek won in the Annunciator subcategory; Yokogawa won in the Recorder subcategory; and Rockwell Automation won in the Industrial Computer, Operator Interface Terminal and Panel Display subcategories. The only change was that Rockwell also was a new winner in the Process Loop Controller subcategory.

Infrastructure Accelerates Networks

Beyond the confines of the control room, of course, resides the larger world of sensors, field instruments, analyzers and countless other components. All of these require extensive networks of cables, connectors, power supplies, safety devices and wireless solutions, which form the avenues for them to get their data back to PLCs, DCSs and other analytical entities to enable optimal decisions.

The irony is that sensors and field instruments enabled by software and microprocessors are more affordable and numerous, and so they're sending back far more data than ever before via more high-speed, high-capacity networks. Granted, fieldbuses, Ethernet and fiberoptics combine many data paths onto far fewer wires, but there are so many more conversations going on that any initial savings will quickly be eaten up by new and growing data volumes. Truth is, IoT and smart manufacturing is going to need more networking than ever.

Fortunately, there are many experienced vendors in this space, who regularly come out on top in their Readers' Choice subcategories, too. For example, three years running now, Rockwell Automation, has won in Input/Output Systems; Pepperl+Fuchs has won in Intrinsic Safety; Phoenix Contact has won in Terminal Block; Belden has won in Wire & Cable; and Emerson Process Management has won in Wireless Infrastructure.

The two new winners in the Infrastructure category were Sola HD for Power Supply and Moore Industries for Signal Conditioner. Both of these came in second place last year.

Input/Output System

- 1. Rockwell Automation
- 2. Siemens Industry
- 3. Emerson Process Management
- 4. ABB
- 5. Opto 22

Intrinsic Safety

- 1. Pepperl+Fuchs
- 2. MTL Instruments
- 3. Siemens Industry
- 4. Rockwell Automation
- 5. R. Stahl

Power Supply

- 1. SolaHD
- 2. Phoenix Contact
- 3. Rockwell Automation
- 4. Siemens Industry
- 5. Acopian

Signal Conditioner

- 1. Moore Industries
- 2. Phoenix Contact
- 3. Pepperl + Fuchs
- 4. Acromag
- 5. Emerson Process Management

Terminal Block

- 1. Phoenix Contact
- 2. Weidmuller
- 3. Rockwell Automation
- 4. Wago
- 5. AutomationDirect

Wire & Cable

- 1. Belden
- 2. Lapp
- 3. Houston
- 4. AutomationDirect
- 5. Anixter

Wireless Infrastructure

- 1. Emerson Process Management
- 2. Cisco
- 3. Honeywell Process Solutions
- 4. Phoenix Contact
- 5. Moxa





Coriolis Flowmeter

- Emerson Process Management
- 2. Endress + Hauser
- 3. Krohne
- 4. Yokogawa
- 5. Siemens Industry

Magnetic Flowmeter

- Emerson Process Management
- 2. Endress + Hauser
- 3. Yokogawa
- 4. ABB
- 5. Krohne

Open Channel Flowmeter

- Emerson Process Management
- 2. Siemens Industry
- 3. Endress + Hauser
- 4. ABB
- 5. Vega Americas

Positive Displacement Flowmeter

- FMC Technologies
- 2. Brooks Instrument
- 3. Emerson Process Management
- 4. Badger Meter
- 5. Brodie International

Thermal Mass Flowmeter

- FCI
- 2. Endress + Hauser
- 3. Sierra Instrument
- 4. ABB
- 5. Brooks Instrument

Turbine Flowmeter

- Emerson Process Management
- 2. FMC Technologies
- 3. Cameron
- 4. Brooks Instrument
- 5. Hoffer Flow Controls

Ultrasonic Flowmeter (Closed Pipe)

- Emerson Process Management
- 2. Endress + Hauser
- 3. Krohne
- 4. Siemens Industry
- 5. GE Energy

Variable Area Flowmeter

- Brooks Instrument
- 2. ABB
- 3. Yokogawa
- 4. Emerson Process Management
- 5. Krohne

Vortex Flowmeter

- Emerson Process Management
- 2. Yokogawa
- 3. Endress + Hauser
- 4. ABB
- 5. Schneider Electric

Flow Switch

- FCI
- 2. Endress + Hauser
- 3. Emerson Process Management
- 4. ifm efector
- 5. Magnetrol

Flow Instruments Tame Turbulence

Flow is obviously defined by ever-changing volumes of liquids, gases, slurries and other materials moving through pipelines and vessels, but measuring it accurately depends on managing it carefully and consistently. This is as true for the latest ultrasonic and Coriolis flowmeters as it has been for the earliest vortex and turbine flowmeters.

Not surprisingly, the consistency required by flowmeter technologies translates to the organization and performance of the many companies that develop and supply them. So even though there are many providers, the specialists in each flowmeter technology tend to remain at the top of their respective heaps for years at a time. Yet again in the Readers' Choice Awards, Emerson Process Management won in six of 10 flowmeter subcategories, including Coriolis, Magnetic, Open-Channel, Turbine, Ultrasonic (closed pipe) and Vortex. Likewise, FMC won again in the Positive Displacement subcategory; FCI won in Thermal Mass and Flow Switch; and Brooks won in Variable Area.

Level-Headed Level Instruments

Naturally, once fluids and other materials stop flowing, it's crucial for operators to know how much they have in storage, so level measurement technologies must provide much of the same consistency and reliability as their flowmeter counterparts.

Here too, Emerson Process Management dominates the field, and continued its winning streak in four of nine Level Gauge subcategories, including Float/Displacer, Non-Contacting Radar, Inventory Grade and the newly renamed Guided Wave.

Meanwhile, Endress+Hauser won again in subcategories across the overall Level field, including Level Gauge, Capacitance/Admittance/Conductance and Level Gauge, Ultrasonic. It also won in Level Switch, Vibration and in the new Level Switch, Ultrasonic, subcategory.

Another perennial all-star, Magnetrol and its Orion Instruments division, also won again in four subcategories. Magnetrol won in Level Switch, Electrical Property-Based and in the new Level Switch, Mechanical subcategory, while Orion won in Level Gauge, Magnetostrictive and in Magnetic Level Indicator.

Level Gauge, Capacitance/Admittance/Conductance

- Endress+Hauser
- 2. Ametek Drexelbrook
- 3. Magnetrol
- 4. Emerson Process Management
- 5. VEGA Americas

Level Gauge, Float/Displacer

- Emerson Process Management
- 2. Magnetrol
- 3. GE Energy
- 4. Endress + Hauser
- 5. ABB

Level Gauge, Guided Wave

- Emerson Process Management
- 2. Endress + Hauser
- 3. VEGA Americas
- 4. Magnetrol
- 5. Krohne

Level Gauge, Non-Contacting Radar

- Emerson Process Management
- 2. VEGA Americas
- 3. Endress + Hauser
- 4. Magnetrol
- 5. Siemens Industry

Level Gauge, Inventory Grade

- Emerson Process Management
- 2. Endress + Hauser
- 3. Honeywell Enraf
- 4. Varec

Level Gauge, Laser

- ABB
- 2. Sick

Level Gauge, Magnetostrictive

- Orion Instruments
- 2. ABB
- 3. Emerson Process Management
- 4. MTS
- 5. VEGA Americas

Level Gauge, Radiometric (Nuclear)

- Vega Americas
- 2. Berthold Technologies
- 3. Endress + Hauser
- 4. Thermo Scientific
- 5. Emerson Process Management

Level Gauge, Ultrasonic

- Endress+Hauser
- 2. Emerson Process Management
- 3. Emerson Industry
- 4. VEGA Americas
- 5. Magnetrol

Level Switch, Electrical Property-based

- Magnetrol
- 2. Endress + Hauser
- 3. Emerson Process Management
- 4. Siemens Industry
- 5. SOR

Level Switch, Mechanical

- Magnetrol
- 2. Emerson Process Management
- 3. ABB
- 3. Endress + Hauser

Level Switch, Ultrasonic

- Endress + Hauser
- 2. Emerson Process Management
- 3. Magnetrol

Level Switch, Vibration

- Endress + Hauser
- 2. Emerson Process Management
- 3. VEGA Americas
- 4. Magnetrol
- 5. Siemens Industry

Magnetic Level Indicator

- Orion Instruments
- 2. ABB
- 3. Emerson Process Management
- 4. Vega Americas
- 5. Endress + Hauser



Pressure Transmitter

Emerson Process Management

2. Yokogawa
3. Endress + Hauser
4. Honeywell Process Solutions
5. ABB

Pressure Switch

Ashcroft

2. Emerson Process Management

Resistance Temperature Detector

Emerson Process Management

2. Pyromation
3. Endress + Hauser
4. Omega
5. Moore Industries

Thermocouple

Emerson Process Management

2. Pyromation
3. Omega
4. Moore Industries
5. ABB

Temperature Transmitter

Emerson Process Management

2. Endress + Hauser
3. Yokogawa
4. ABB
5. Honeywell Process Solutions

Infrared Temperature Sensor

Fluke

2. Emerson Process Management
3. ABB
4. Omega Engineering

Infrared Imaging/Thermography

Fluke

2. FLIR Systems

Temperature Switch

Ashcroft

2. Emerson Process Management
3. United Electric Controls

Temperature and Pressure Cook Along

To keep pipelines, vessels and other process equipment running within optimal ranges, however, requires more than flow and level devices, and that's where the best pressure and temperature components come in—and keep on winning end users' votes year after year.

One more time, Emerson Process Management won again in four of the eight subcategories, including Pressure Transmitter, Resistance Temperature Detector, Thermocouple and Temperature Transmitter.

Likewise, Fluke won again in the Infrared Temperature Sensor and Infrared Imaging/Thermography subcategories. In addition, Ashcroft won in the new Pressure Switch and Temperature Switch subcategories.

Analyzers Get Smart and Travel

Because process equipment running properly isn't worth much if the products they're producing aren't within specifications, control engineers and operators must also keep a close eye on the quality and characteristics of those products as they progress through their applications. Cue the analyzers, which are themselves gaining new, intelligence capabilities, and often moving out into the field to more closely monitor their processes and products.

Perhaps it's related to the newfound mobility of their devices, but analyzer suppliers are also experiencing some shifts within their Readers' Choice category. In fact, three second-place winners last year took over and won in three of seven Analyzer subcategories this year. These scrappy competitors include: MSA that won in Ambient Gas Detector; Vaisala that won in Humidity/Moisture Analyzer; and Emerson Process Management that won in Process Chromatograph.

Beyond these upsets, Emerson also won again in three more subcategories, including Density/Concentration and pH/ORP/Conductivity analyzers, as well as Process Chromatograph.

Ambient Gas Detector

MSA

2. Emerson Process Management
3. ABB
4. Yokogawa
5. Siemens

Density/Concentration Analyzer

Emerson Process Management

2. Endress + Hauser
3. Yokogawa
4. Thermo Fisher Scientific
5. Anton Paar

Humidity/Moisture Analyzer

Vaisala

2. GE Measurement & Control
3. Emerson Process Management
4. Honeywell Process Solutions
5. Ametek

pH/ORP/Conductivity Analyzer

Emerson Process Management

2. ABB
3. Endress + Hauser
4. Yokogawa
5. Schneider Electric

Process Spectrometer

ABB

2. Thermo Fisher Scientific
3. Emerson Process Management
4. Yokogawa
5. Hach

Process Chromatograph

Emerson Process Management

2. ABB
3. Yokogawa
4. Siemens Industry

Stack Gas/Emissions Analyzer

Emerson Process Management

2. ABB
3. Ametek
4. Yokogawa
5. Siemens Industry



Final Elements Get the Last Word

While it might seem like controllers are the ultimate authority in most process applications, to get their orders carried out, they depend almost entirely on the valves, actuators and motors in the Final Element category. Consequently, end users in this sector don't appreciate surprises, and they rely on and vote for suppliers who are always on top of their game.

As a result, Emerson Process Management won again in the Control Valve and Pneumatic Valve Actuator subcategories, while Emerson Electric (which includes ASCO) won again in the On/Off Valve subcategory.

Other repeat winners include Rotork Controls for Electric Valve Actuator, Rockwell Automation for Electric Motor Drive, and Baldor Electric for Electric Motor.

Outstanding in the Field

Once all the analyzers, smart devices, software and IoT connections move or reach out into the field, they're going to find it as hot, cold, wet, dusty, oily, electrically noisy and potentially explosive as does every other component that's ventured beyond its climate-controlled, IT-enabled cocoon.

Luckily, there are more than a few products and vendors with long experience in making harsh environments more survivable and friendly. Though these stalwarts come from different technical disciplines and manufacture a variety of solutions, they're all concentrated on protecting components and the applications they're running.

Possibly due to new devices coming out into the field and needing new types of protection, there were a couple of upsets in this year's Field Instrument category. First, Schneider Electric was the new winner in the Data Acquisition System subcategory, which may be less surprising because its recently acquired Invensys division placed third last year. Second, Emerson Process Management was a new winner in the Remote Terminal Unit subcategory after placing second a year earlier.

Repeat winners included Pentair Technical Products in the Enclosure subcategory, while Pepperl+Fuchs won in Purge System; Fluke won in Portable Calibrator; Swagelok won in Instrument Fittings; GE Energy won in Vibration Instrumentation; and Mettler Toledo won in Weighing System/Load Cell. ■

Control Valve

Emerson Process Management

2. Flowserve
3. Samson Controls
4. GE Energy
5. Metso

Electric Valve Actuator

Rotork Controls

2. Emerson Process Management
3. Flowserve
4. Auma Actuators
5. Metso

Pneumatic Valve Actuator

Emerson Process Management

2. Metso
3. Flowserve
4. Rotork
5. Samson

On/Off Valve

Emerson Electric*

2. Metso
3. Flowserve

* Includes Emerson Industrial Automation (ASCO) and Emerson Process Management brands

Electric Motor Drive

Rockwell Automation

2. ABB
3. Siemens Industry
4. Schneider Electric
5. Yaskawa

Electric Motor

Baldor Electric

2. Siemens Industry
3. ABB
4. US Motors
5. Toshiba

Data Acquisition System

Schneider Electric

2. Rockwell Automation
3. National Instruments
4. OSI Software
5. Emerson Process Management

Enclosure

Pentair Technical Products

2. Rittal
3. Hubbel Wiegmann
4. Saginaw Control & Engineering
5. Emerson Process Management

Purge System

Pepperl + Fuchs

2. Pentair Technical Products

Portable Calibrator

Fluke

2. Beamex
3. Yokogawa
4. Emerson Process Management
5. Extech Instruments

Remote Terminal Unit

Emerson Process Management

2. Siemens Industry
3. Schneider Electric
4. Rockwell Automation
5. ABB

Instrument Fittings

Swagelok

2. Parker Hannifin
3. Hy-Lok
4. Hoke

Vibration Instrumentation

GE Energy

2. Emerson Process Management
3. ifm
4. SKF
5. Metrix Instrument

Weighing System/Load Cell

Mettler Toledo

2. Rice Lake Weighing Systems
3. Siemens Industry
4. Hardy Process Solutions
5. Avery Weigh-Tronix

