



# INDUSTRIAL CONTROLS SYSTEMS, INC.



*Broad Vision*

*Careful Thought*

*Delivering Excellence*



*With our trusted partners!*

**Limitorque**  
FLOWERVE

**VALTEK**  
FLOWERVE

**Edward Valves**  
FLOWERVE

Clark-Reliance®  
**ANDERSON**  
Separator

Clark-Reliance®  
**JERGUSON**®  
A PRODUCT OF CLARK-RELANCE

Clark-Reliance®  
**Enervac**™  
INTERNATIONAL ULC  
A CLARK-RELANCE COMPANY

Endress+Hauser  
People for Process Automation



**NEWAY**

**VERSA**

**HUAYANG**  
STEEL PIPE

**Wujin**®

**KACE**

**VATAC**



[www.iconindustrialcontrols.com](http://www.iconindustrialcontrols.com)

## HEAD OFFICE

4th Floor, R Place Building, No.12  
Faustino St. Brgy. Holy Spirit,  
Quezon City Philippines 1127



## LAGUNA OFFICE AND WORKSHOP

Front of MRF Purok 3, Brgy.  
Sta. Cruz Bay Laguna 4033



## LIAISON OFFICE:

Rm 3, 2nd floor, Busy Bee  
Bldg. Lilia Ave. Brgy. Cogon  
Ormoc City, Leyte 6541

## COMPANY OVERVIEW

Industrial Controls Systems, Inc. is a company that provides quality industrial equipment from its trusted partners to valued customers, and services such as engineering, supply, installation, maintenance, retrofitting, and testing and commissioning.



## OUR MISSION

- Anticipating and responding to our customer's needs.
- Offering reliable and superior products and services to our customers.
- Enhancing our business relationship with our manufacturers by increasing and expanding our market share.
- Improving the quality of life of our employees by providing financial stability and career growth

## OUR VISION

- ICON will be the preferred company of customers and manufacturers. We will be the acknowledged and dependable provider of products and services that give value for money, ensuring sustainable and continuous growth that will benefit all our stakeholders.

## CORE VALUES



COMMITMENT TO  
EXCELLENCE



COMMITMENT TO  
CUSTOMER  
SATISFACTION



MALASAKIT



TEAMWORK

Our Sales, Marketing, &  
Business Development Team

## Connect with us!



+632 8967-0510 to 19



Industrial Controls Systems, Inc.



(+63) 9171157970



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sales@iconindustrialcontrols.com





## Experience In Motion

**Edward Valves**  
FLOWERVE

***norbro***

**VALTEK**  
FLOWSERVE

***Automax***  
VALVE AUTOMATION  
SYSTEM

**Limitorque**  
FLOWERVE

# PMV POSITIONERS



**INDUSTRIAL  
CONTROLS  
SYSTEMS, INC.**

**INDUSTRIAL  
CONTROLS  
SYSTEMS, INC.**



**LIMITORQUE FLOWERVE** actuators are world-class devices used to consistently drive multi-turn and quarter-turn industrial valves and dampers, providing years of dependable service.

*"A trusted performer in the most demanding applications"*

## ELECTRIC ACTUATORS



**MX Series B**  
Multi-turn,  
Non-intrusive  
Actuator



**L120**  
Multi-turn,  
Intrusive  
Actuator



**SMB Series**  
Multi-turn,  
Intrusive  
Actuator



**MX Series A**  
Non-intrusive  
Multi-turn  
Actuator



**QX**  
Intrusive  
Quarter-Turn  
Actuator

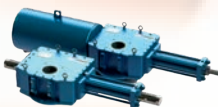


**QXM**  
Non-Intrusive  
Multi-Turn  
Actuator



**LTQ**  
Intrusive  
Quarter-Turn  
Actuator

## HYDRAULIC & PNEUMATIC ACTUATORS



**LHH & LHS**  
Hydraulic  
Actuator



**LPS**  
Pneumatic  
Actuators-  
Scotch Yoke



**LPC**  
Pneumatic  
Actuator-  
Scotch Yoke



**LDG**  
GAS POWERED  
ACTUATOR



**LRP**  
Pneumatic Actuator-  
Rack & Pinion

## GEARBOXES



**V Series**  
Multi-Turn



**SR Series**  
Multi-Turn



**WG Series**  
Quarter-Turn



**HBC Series**  
Quarter-Turn

Since 1929, Limatorque actuators have been making flow control easier among a broad range of applications. These actuators are world-class devices used to consistently drive multi-turn and quarter-turn industrial valves and dampers, providing years of dependable service. More than 1 million Limatorque actuators have been installed around the world—and some have been in operation for more than a half-century.

Limatorque changed the industry with its strategic introduction of a "torque-limiting" design. Today, all heavy-duty electric actuators use some device that "limits the torque" to safely operate automated valves and protect people and property.







Founded in 1965, Valtek revolutionized traditional control valves by adding a high-pressure piston actuator to enable maximum stiffness, plus a simple, one-touch calibration positioner. The result is a superior level of process control and simple, intuitive operation, resulting in more efficient and profitable operations.

Reliability, long life, parts interchangeability, ease of maintenance and prompt delivery are hallmarks of the Valtek brand.

#### Valtek Mark 1 Globe Valves

- ½" to 36" Sizes
- Class 150 to 2500
- Straight, Angle, & 3-Way Body Styles
- Noise Cancelling and Anti-Cavitation Trims Severe Service for Power Plant Application Boiler & Turbine Valves

#### Valtek Mark 8 Globe Valves

- Size 1" to 18"
- Class 150 to 2500
- Linear "Y" Style Globe Valve
- Double Stem Guiding
- High Flow Capacities

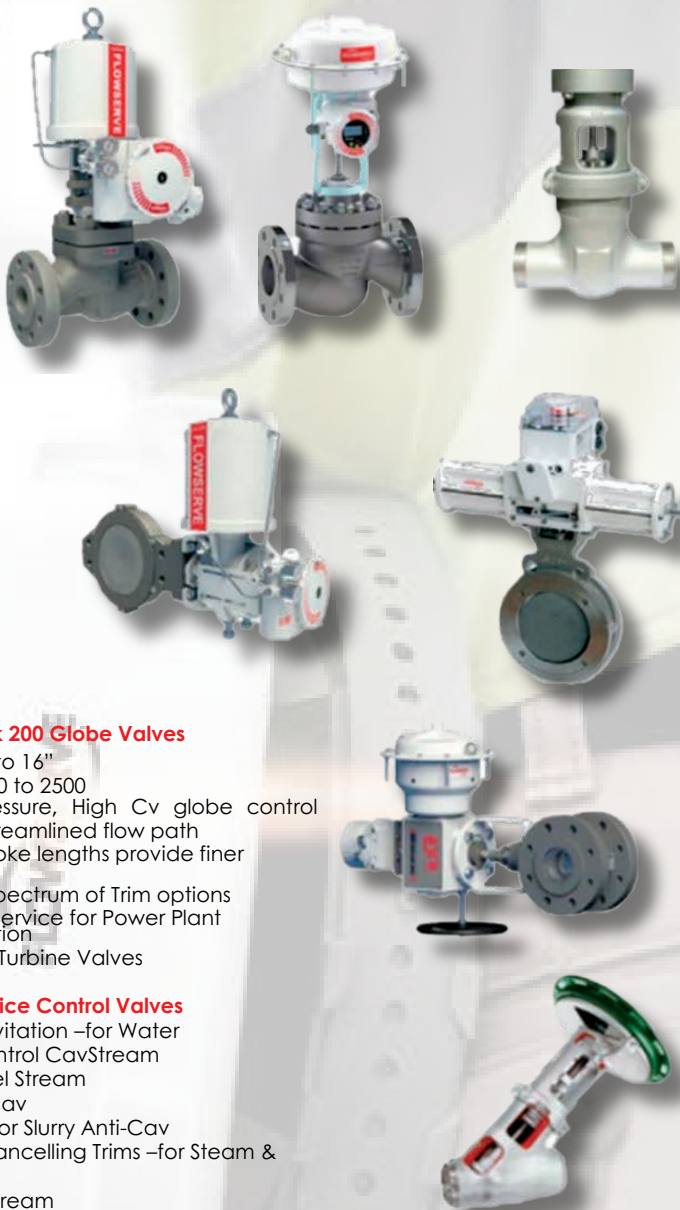
#### Valtek Mark 100 Globe Valves

- Sizes 6" to 30"
- Class 150 to 600
- High Capacity
- Versatile body
- Low Noise and Anti Cavitation Trims

#### KAMMER LowFlow& MicroFlowSeries

- Low Flow & Micro Flow Application
- Valves Cvs up to 0.000001
- Vacuum to 4,000 bars High Pressure Applications
- Minus 269 degrees C to 400 degrees C
- All Stainless Steel, Alloy Steel, Plastics & Exotic Alloy
- Tank Bottom Valves
- Cryogenics Application

Flowserve offers the world's most comprehensive portfolio of fluid motion and control products available from **pumps and seals** to **valves, actuation** and **instrumentation**, to energy recovery devices and hydraulic decoking systems, and more.



#### Valtek Mark 200 Globe Valves

- Sizes 2" to 16"
- Class 150 to 2500
- High-pressure, High Cv globe control valve Streamlined flow path
- Long stroke lengths provide finer control
- Broad Spectrum of Trim options
- Severe Service for Power Plant Application
- Boiler & Turbine Valves

#### Severe Service Control Valves

- Anti-Cavitation –for Water
- CavControl CavStream
- Channel Stream
- Micro Cav
- Multi-Z-For Slurry Anti-Cav
- Noise Cancelling Trims –for Steam & Gas
- MegaStream
- Tiger Tooth
- Stealth
- Note: TRIMS for Valtek Mark 1, 2, 8, 100, 200 & Flowtop

#### KAMMER LowFlow& MicroFlowSeries

- Low Flow & Micro Flow Application
- Valves Cvs up to 0.000001
- Vacuum to 4,000 bars High Pressure Applications
- Minus 269 degrees C to 400 degrees C
- All Stainless Steel, Alloy Steel, Plastics & Exotic Alloy
- Tank Bottom Valves
- Cryogenics Application





## PNEUMATIC ACTUATORS



Pneumatic Actuators -  
Rotary - NR



Pneumatic Actuators -  
Rotary - VR



Pneumatic Actuators -  
Linear - FlowAct



Pneumatic Actuators -  
Linear - VL Series

## LOGIX™

### DIGITAL POSITIONERS



Digital Positioners -  
Logix 420



Digital Positioners -  
Logix 3800e



Digital Positioners -  
Logix 520MD+



Digital Positioners -  
Logix 510si



Digital Positioners -  
Logix 3400MD



Digital Positioners -  
Logix 3200MD



Digital Positioners -  
Logix 520MD



# Edward Valves

FLOWSERVE

Edward high-performance isolation valves are designed for critical service applications with temperatures exceeding 1,000°F and pressures surpassing 10,000 psi. The product line includes a variety of gate, globe, check, blowdown, bolted bonnet, nuclear and univalves from Edward, Equiledge® and FliteFlow.

First manufactured in 1904, Edward valves have reliably met or exceeded customer expectations for more than a century, becoming the preferred choice for power plants, process facilities and other critical services.

## CAST STEEL VALVES



Flexible Split Wedge Gate Valves - Equiledge Main Steam Isolation Valve



Flexible Split Wedge Gate Valves - Equiledge Main Feedwater Isolation Valve



Y-Pattern Globe Valves - Flite-Flow



Tilting Disk Check Valves

## FORGED STEEL VALVES



Y-Pattern Globe Valves - Univalve



Y-Pattern Globe Valves - Blow-off



Piston (Lift) Check Valves - Univalve



Piston (Lift) Check Valves - Bolted Bonnet



Flexible Split Wedge Gate Valves - Equiledge

# PMV

## SWITCHBOXES



Switch Boxes -  
PMV F5



Switch Boxes - PS/PM



Switch Boxes -  
DS/DM



Switch Boxes -  
WS/WM



Switch Boxes -  
XCL/XML



On Off Control -  
Aviator II

## POSITIONERS



Digital Positioners  
- PMV D3



Digital Positioners  
- PMV D30



Analog  
Positioners - PMV  
P5/EP5



Digital Positioners  
- PMV D20



Analog  
Positioners - PMV  
PT700

## Automax VALVE AUTOMATION SYSTEM



Pneumatic Actuators  
- Rack & Pinion -  
Automax Supernova



Pneumatic Actuators  
- Rack & Pinion -  
Automax SXL



Pneumatic Actuators  
- Scotch Yoke - RG

## *norbro*<sup>TM</sup> PNEUMATIC ACTUATORS



Pneumatic Actuators  
- Rack & Pinion -  
Norbro 33R



Pneumatic Actuators  
- Rack & Pinion -  
Norbro 40R



Pneumatic Actuators -  
Rack & Pinion - Norbro  
P61







**JERGUSON®**  
A PRODUCT OF CLARK-RELIANCE

 **Enervac®**  
INTERNATIONAL LLC  
A CLARK-RELIANCE® COMPANY

## ANDERSON Separator



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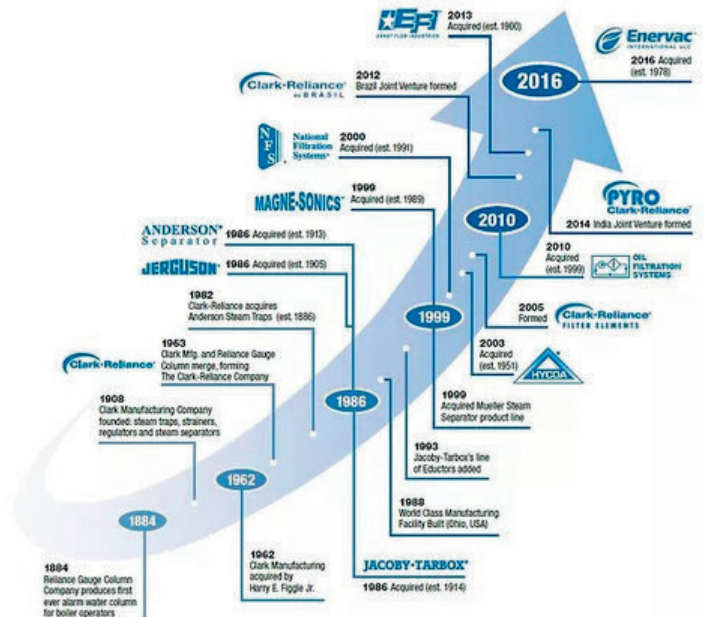




**Clark-Reliance®** provides customer solutions in over 120 countries in the power generation, refining, gas processing and chemical industries. Key acquisitions over the last few decades have solidified Clark-Reliance as an industry leader in the design, manufacture and distribution of level indication & control and filtration & separation products and services.

## ANDERSON Separator

**Anderson Separators** are specially designed to remove aerosol and particles from steam and natural gas – absolute removal efficiencies from 0.3 micron to 10-micron.



### Vane Type AVS Series

High efficiency separation of entrained solid particulate  
 100% removal of 8 micron size liquid particles & larger  
 100% removal of 5 micron size solid particles & larger  
 Capacity to handle heavy solid loadings or liquid slugging



### Centrifugal Type

In-Line vertical/vertical gas design 100% removal of liquid particles 8.0 microns and larger  
 Low pressure drop  
 Rugged construction/long Life  
 Stock or custom-designed  
 No maintenance



### Multi-Cyclone Type

Vertical up flow  
 Exhaust heads  
 Combination separator traps Multi-stage and single-stage designs  
 99% of 10 µm and larger



# JERGUSON®

A PRODUCT OF CLARK-RELIANCE

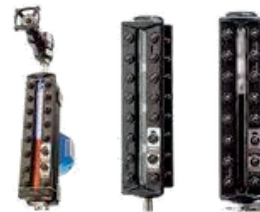
**Jerguson** is a product of Clark Reliance and world leader in Liquid Level Indication since 1905 which also engages in the design, manufacturing, and distribution of:

- ☐ Glass Gages
- ☐ Valves
- ☐ Lightings & Accessories
- ☐ Magnetic Level
- ☐ Indicators Level Switch & Transmitters

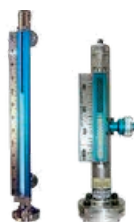
## Clark-Reliance®



**Boiler  
Level Gages**



**Armored Glass  
Gages**



**Magnetic Level  
Gages**



**Tubular Glass  
Gages**

# Enervac™

INTERNATIONAL ULC  
A CLARK-RELIANCE® COMPANY

Enervac has built a world-wide reputation for delivering high-performance engineered products and for establishing cost-effective, environmentally-acceptable liquid and gas processing and recovery programs.

- ☐ Transform Oil Purification System
- ☐ SF6 Gas Servicing Equipment
- ☐ Oil purification Systems
- ☐ Vacuum Dehydration Oil Purification Systems (VDOPS) Oil Purifier
- ☐ Varnish Removal Systems
- ☐ Transformer Breathable Dry Air Systems
- ☐ Varnish Removal Systems
- ☐ Pressure Oiling Devices
- ☐ Portable Vacuum Devices



**Transformer Oil Purifier /  
Degasification (E865A)**



**SF6 Gas Recovery Unit  
(GRU-4 PLUS)**



**Portable Oil  
Purifier/Dehydrator  
System (E859C)**



**Vacuum Dehydration Oil Purification  
Systems (VDOPS) Oil Purifier**



**Varnish Removal Systems**



**Portable Vacuum Devices**



**Pressure Oiling Devices**

**icon**  
INDUSTRIAL  
CONTROLS  
SYSTEMS, INC.

# **NW NEWAY**

**NEWAY VALVE (SUZHOU) CO., LTD.**

—⊘— Ball Valves    —✕— Butterfly Valves    —⌵— Gate Valves

—↗— Check Valves

 Safety Valve  
PSV







### Gate Valves

- ☐ Conventional
- ☐ Stainless Steel
- ☐ Parallel Slide
- ☐ Slab Gate (Soft/Metal Seat)
- ☐ Expanding Gate
- ☐ Forged
- ☐ Knife Gate
- ☐ Cryogenic



### Globe Valves

- ☐ Conventional
- ☐ Stainless Steel
- ☐ Forged
- ☐ Angle
- ☐ Y-Type
- ☐ Stop Check
- ☐ Cryogenic



### Check Valves

- ☐ Conventional
- ☐ Stainless Steel
- ☐ Dual Plate
- ☐ Axial Flow
- ☐ Tilting
- ☐ Full Opening
- ☐ Forged
- ☐ Cryogenic



### Through Conduit Valves

- ☐ Fire safe design
- ☐ Low fugitive emission with TA-Luft certified
- ☐ Optional slab or expanded gate design
- ☐ Double block and bleed
- ☐ Cavity pressure self relief
- ☐ Emergency sealant injection system



### Safety Valves

- ☐ Spring-loaded Safety
- ☐ Valve Pilot-operated
- ☐ Safety Valve
- ☐ Pressure/Vacuum
- ☐ Safety Valve
- ☐ Changeover Valve



### Wellhead Valves API 6A

- ☐ Non-Rising Stem Slab Gate Valve
- ☐ Rising Stem Slab Gate Valve
- ☐ Non-Rising Expanding Gate Valve
- ☐ Mud Valve
- ☐ Swing Check Valve
- ☐ Lift Check Valve



**Neway Valve** is one of the leading valve manufacturers in the world covering various valve types like **gate, globe, check, ball, butterfly, nuclear, subsea, control, safety valve & wellhead equipment.**

Neway Valve is one of leading valve manufactures with the advanced valve plant in the world who can cover a complete valve program in order to satisfy the demand and requirements of our clients. The entire manufacturing process is being controlled in-house, starting with our own R&D center, three foundries and high end assembling & testing plant.

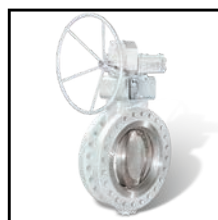
Neway is able to provide a complete solution of industrial valves with a fully traceable and in-house quality control system. Neway's proven stable quality, reliability and performance has been acknowledged by key EPC contractors and end-users and results in many approvals, contracts, frame work & investment agreements.



### Concentric

Design Features:

- ☐ Triple offset frictionless design
- ☐ Low opening and close torque
- ☐ Zero leakage
- ☐ Anti-blowout shaft
- ☐ Low emission shaft seal
- ☐ Compact design



### Triple Offset

- ☐ Metal + Graphite Sealing
- ☐ Metal Sealing
- ☐ Lug/Wafer type



### Double Offset

- ☐ PTFE Seat
- ☐ Rubber Seat



# Endress+Hauser

People for Process Automation



You want to monitor basic  
processes easily and reliably.

# EASE + EXPERTISE

Based on our experience and technical knowledge  
we have developed products that are easy to select,  
install and maintain.



## LIQUID ANALYSIS

Comprehensive product range for all analytical parameters

## THE DIGITAL REVOLUTION IN THE WORLD OF PROCESS ANALYSIS

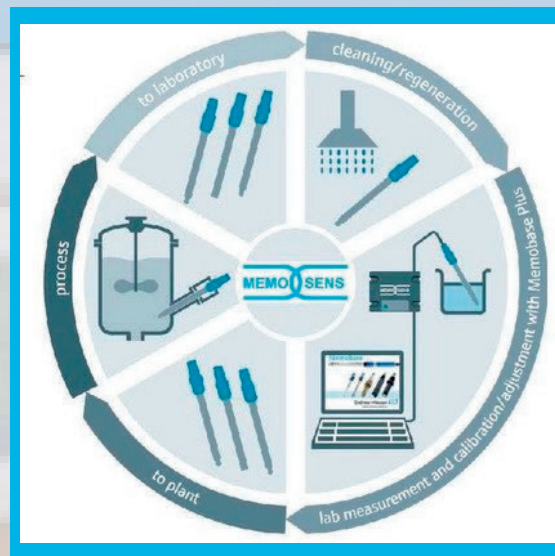
Memosens is more than just a digital protocol or an inductive plug-in head. It is the ideal solution for safety and operating comfort in analytical measuring technology-something users and producers have been striving for generations.

Memosens provides numerous benefits for both plant managers and operators:

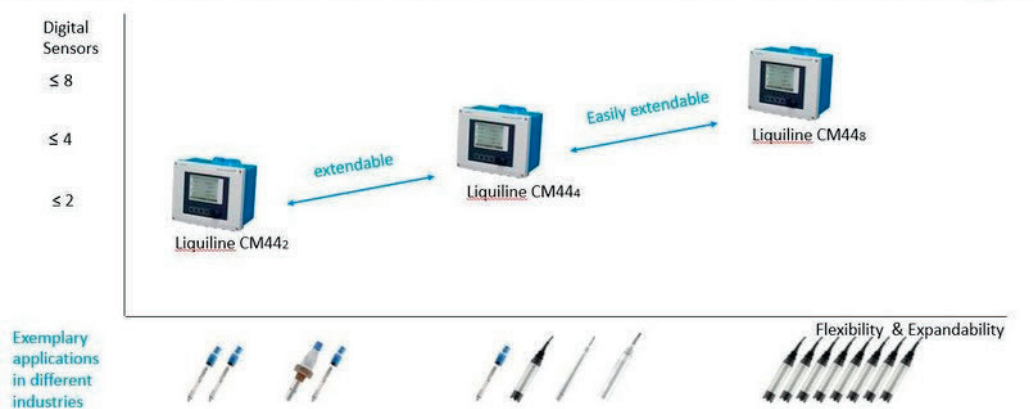
- Regeneration of the sensors results in up to 30% longer sensor lifetime
- Reduction in process downtime as sensors are pre-calibrated in the lab
- More accurate process management thanks to sensor maintenance planning- no bad surprises
- Predictive maintenance as an integrated part of the sensor technology, resulting in improved asset management

Measure, calibrate and document with Memobase Plus Memobase Plus is the all-in-one sensor management tool. With the software, you can not only calibrate the sensor and read out sensor data but also generate reports on sensor history and status: measurement data, calibration data and sensor lifecycle are visible at a glance. Your process becomes crystal clear - Memobase Plus takes traceability to a new level.

- Time-saving with up to 4 sensors in parallel
- Flexibly mix and match sensors with Memosens technology
- Calibration under optimum conditions
- Improved quality management thanks to full traceability of sensors and reference solutions
- All available data for predictive maintenance
- Measurement technology identical to field transmitters for better comparability



## Multi-Channel & Multi Parameter w/ Seamless Extension to more channels anytime





### pH/ORP

Glass and glass-free Memosens sensors, transmitters and assemblies for standard, hygienic and hazardous applications; fully automated cloning, calibration and measuring systems.



### Conductivity

Conductive and toroidal Memosens sensors and transmitters for all measuring ranges in standard, hygienic and hazardous applications; compact measuring devices, calibration and verification systems.



### Turbidity/solids

Optical Memosens sensors and transmitters for all measuring ranges from lowest turbidity in drinking water to solids in wastewater applications; ultrasonic sludge level measurement.



### Oxygen

Amperometric and optical Memosens sensors, transmitters and assemblies for all applications, including hazardous areas, hygienic processes and trace measurement



### Disinfection (Chlorine)

Amperometric Memosens sensors for water treatment and swimming pools; flow assembly for simultaneous measurement of chlorine and pH/ORP



### Analyzers

Colorimetric analyzers as well as optical and ion-selective sensors for monitoring of nutrients, organic load and metals: Liquiline system analyzers and sample preparation systems available with Memosens technology.



### Transmitters

Liquiline transmitters featuring all common fieldbuses; suitable for all applications including hazardous areas and hygienic processes; multichannel and multiparameter devices for field or DIN rail installation.



### Process Photometers

Process photometers for accurate concentration measurement by determining UV absorption, color, turbidity and cell growth; suitable for hygienic applications and hazardous areas.



### Samplers

Portable and stationary samplers with Memosens technology for automatic sampling, defined distribution and safe preservation of liquid samples.



# SWAS & Analytical Panels Solutions

## System Component and data managers

Visualize, process, and monitored measured values



### WirelessHART Adapter and Gateway

Endress+Hauser's WirelessHART Adapter and Gateway are suitable for applications, such as: inventory monitoring or energy monitoring tasks, collection of process information from rotating or mobile installations and applications with environmental limitations to cabling



### Isolators/power supply

For safe isolation of 4-20 mA standard signal loops, with international approvals (ATEX, FM, CSA, SIL).



### Process transmitter with control unit

With quick setup and simple on-site operation via three keys, LC display for limit values as well as bargraph and pluggable screw terminals.



### Overvoltage protection

For limitation of excess voltage in signal and supply lines in Ex and non-Ex versions, as a module or module carrier or screw-in direct.



### Fieldgates

Gateways with Ethernet interface to HART over PROFIBUS and to PROFIBUS signals allow plant access to device parameters. Applications include monitoring, device d



### Data logger

Measured data collector Minilog B with analog and digital input for acquisition and storage of analog and digital values, measurement of store room and transport temperatures, recording of operating times, unit number and quantity recording.



### Universal data manager

Ecograph T is a state-of-the-art solution to multi channel displaying, recording, monitoring and communication needs. The unit is easy to use and comes with a host of convincing features to save costs and simplify data acquisition.

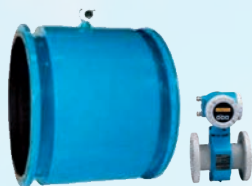


### Advanced data manager

The Memograph M is perfectly suitable to memorize, visualize, analyze and communicate process values. The innovative device is impressive because of its high functionality, modular construction and its intuitive operator concept.

## FLOW

High- performance instruments for the flow measurement of liquids, gases, and steam.



### electromagnetic

Universal measuring principle for all conductive liquids, Virtually independent of pressure, density, temperature and viscosity. Even liquids with solids can be measured, e.g. ore slurry or cellulose pulps. Over 2 million Endress+Hauser magmeters installed since 1971 Sizes: DN 2 to 2400.



### Coriolis

Universal measuring principle for liquids and gases, Multivariable sensors: simultaneous and direct measurement of mass flow, density, temperature and viscosity. Independent of the physical fluid properties. Sizes: DN 1 to 400 (max. 4100 t/h).



### Ultrasonic

Volume flow measurement of clean liquids, regardless of electrical conductivity with either clamp-on or inline sensor type. Ultrasonic measurement enables cost-effective and economical flow metering anywhere in the process. Independent of pressure, temperature and the physical fluid properties. Special devices for measuring wet or dirty gases at low pressures, e.g. biogas or land fill gas. Sizes: DN 15 to 4000.



### Vortex

Universally applicable for the measurement of liquids, gases and steam. Extremely robust with regard to external vibrations, dirt, water hammer and temperature shocks. Largely independent of changes in pressure, temperature and viscosity. High long-term stability, no zero point drift. Efficient steam plant operation thanks to the only wet steam detection of its kind in the world. Sizes: DN 15 to 300.



### Differential Pressure (DP)

Universally applicable for liquids, gases and steam up to 420 bar and 1000°C. Robust primary element as it is completely mechanical with no moving parts. The transmitter can be replaced during operation, eg. for maintenance or modernization of the measuring point without interrupting the process Sizes: DN 10 to 4000.



### Thermal

Direct mass flow measurement of gases with low process pressure up to 40 bar. Measuring principle with a high operable flow range (100:1) and an excellent low-end sensitivity. Negligible pressure loss. Sizes: DN 15 to 1500.

## New featured Technology

### Promag 0 x DN full bore



Electromagnetic flowmeters with 0 x DN full-bore technology from Endress+Hauser provide a solution for challenging applications without inlet and outlet runs. The maximum measuring performance regardless of the mounting location is achieved using multiple optimally positioned electrodes and advanced signal processing to average out the flow velocity across the entire flow profile



## LEVEL Continuous level measurement and point level detection in fluids in bulk fluids.



### Radar

Continuous non-contact Time-of-Flight measurement in fluids and bulk solids, even under extreme conditions such as changes of medium, gas formation, vapor, vacuum. Temperatures up to 450°C; pressures up to 160 bar.



### Ultrasonic

Continuous non-contact Time-of-Flight measurement in fluids and bulk solids. Independent of specific medium properties. Temperatures up to 150°C; pressures up to 4 bar.



### Guided Radar

Continuous Time-of-Flight measurement in fluids and bulk solids. Independent of product properties such as humidity, density, dielectric constant etc. Reliable and safe interface measurement even with emulsion layers. Temperatures up to 450°C; pressures up to 400 bar.



### Radiometry

Non-contact external measurement. For all extreme applications (e.g. toxic or highly aggressive media). Any temperature, any pressure.



### Vibronics for Fluids

Point level switch for all fluids even in the presence of build-up, turbulence or air bubbles. Independent of the electrical properties of the medium. Temperatures up to 280 °C; pressures up to 100 bar.



### Vibronics for Solids

Point level detection in all kinds of bulk solids up to a maximum grain size of approx. 10 mm. Calibration-free, maintenance-free. Temperatures up to 280°C; pressures up to 25 bar.



### Hydrostatics

Level optimized pressure sensor cell for measurement in fluids, pastes and sludges. Independent of foam formation and changing product properties. Temperatures up to 400 °C; pressures up to 40 bar.



### Differential Pressure

Measurement in closed, pressurized vessels. Not affected by dielectric constant, foam, turbulences or obstacles. Temperatures up to 400 °C; pressures up to 420 bar.

# Endress+Hauser

People for Process Automation



## Capacitance

Point level detection and continuous level measurement in fluids and bulk solids. Even with aggressive media and heavy build-up; condensate-proof. Temperatures up to 400 °C; pressures up to 100 bar.



## Conductive

Easy, cost-effective level limit detection in conductive fluids such as water, wastewater, liquid food- stuffs etc. Temperatures up to 100 °C; pressures up to 10 bar.



## Paddle Switch

Low-cost point level switch for bulk solids of all kinds up to a grain size of 50 mm, solid weight > 100 g/l. Temperatures up to 80°C; pressures up to 0.8 bar.



## Electromechanical Level System

Robust, mechanical system for measurement in bulk solids for applications in high vessels (up to 70 m). Unaffected by heavy dust formation. Temperatures up to 230°C; pressures up to 3 bar.

## PRESSURE

Process and differential pressure management in acids, sludges, gases or vapor.



## Digital Transmitters

These high-end pressure transmitters offer you a comprehensive safety package and an intelligent operation and device concept. Reliable data management is provided in the form of HiStoROM. The digital transmitters are developed, constructed and manufactured in compliance up to SIL 3/IEC 61508 (homogeneous redundancy).



## Pressure Switch

Pressure switch For safe measurement and monitoring of absolute pressure and overpressure in gases, vapors and fluids. Smooth operation with display and on-site operation as well as a modular adapter system for easy connection to all processes.



## Analog & Digital Transmitters

Flexible device platform for universal application in your processes. This includes FDA-compliant materials and aseptic connections that are especially suitable for hygienic applications.

The analog digital transmitters are available with the following electronics variants: analog, HART, PROFIBUS PA or FOUNDATION™ Fieldbus.



## Transducer

A compact pressure transducer with preset measuring range. The Cerabar product family offers robust ceramic sensors up to 40 bar or metal sensors up to 400 bar for absolute and overpressure measurements.



## TEMPERATURE

Sensors and transmitters for temperature measurement in the process industry.



### Head Transmitters

Design according to DIN EN 50446



### DIN Rail Transmitters

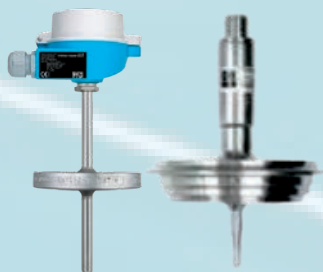
For 35 mm mounting rails ensuring safe, process-near transmission of the sensor signal.



### Field Transmitters

With on-site display (optional) for optimum safety and reliability requirements.

**Temperature sensors** We offer a wide selection of resistance thermometers (RTD) and thermocouples (TC) to suit every application. iTHERM QuickSens and iTHERM StrongSens temperature sensors increase process efficiency due to very fast response time and ensure process availability with extremely vibration resistant sensor technology. This provides optimum preconditions for exact and safe process control. Pre-dominantly class A sensors or better are used for our resistance thermometers.



### Resistance Thermometers

Modular or compact design for hygienic, industrial or heavy duty applications



### Thermocouples

For Measurements at high temperatures even under the most difficult conditions.

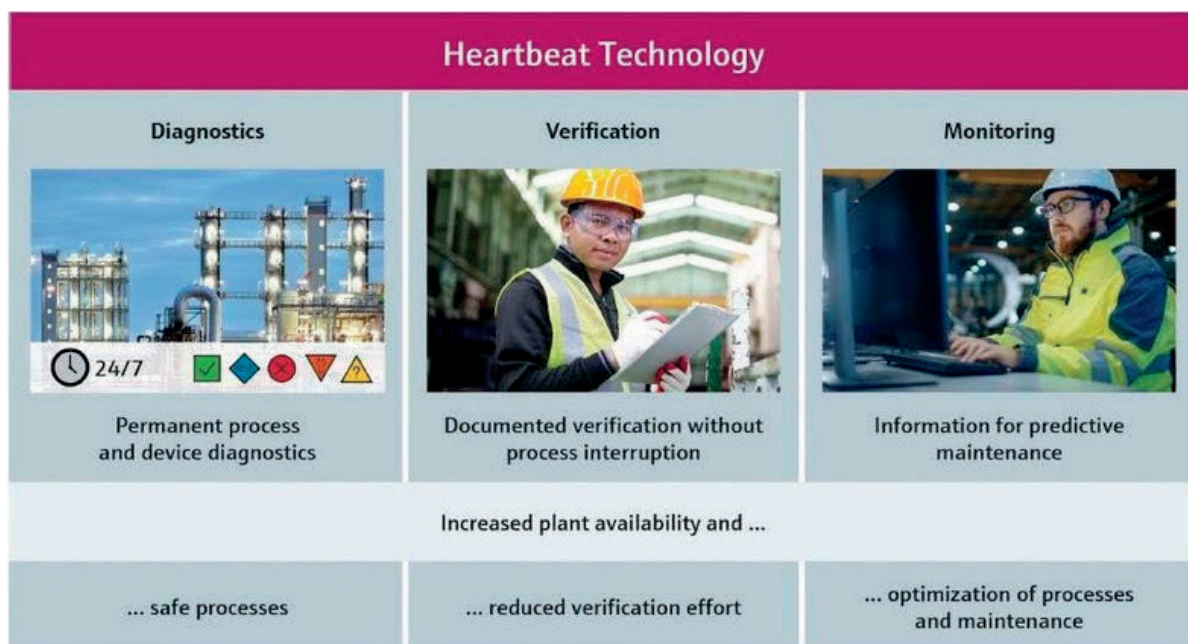


### Temperature Switches

For monitoring, display and regulation of process temperatures. Available with various process connections (standard and hygienic). The sensors can be used in measuring ranges from -50 to +200°C.

# HEARTBEAT TECHNOLOGY

Taking the pulse of your measurement



- Unambiguous, standardized diagnostic messages with clear instructions enable cost-effective, status-oriented maintenance
- Permanent self-diagnostics of devices guarantee safe plant operation with extended test cycles
- Measuring points can be verified at any time without interrupting the process
- A simple, guided test procedure guarantees clear, documented test results every time
- An automatically generated test report supports the certification requirements of regulations, laws and standards
- The availability of device and process data enables the identification of trends used for predictive maintenance
- The combination of device and process parameters provides the analysis needed for targeted process optimization



Notifications relating to process and device diagnostics clearly indicate the status as per NE107 as well as providing explicit instructions:



Device OK



Function check



Out of specification



Failure



Maintenance required





**KACE Ball Valves** was established in 1995 with the focus to become one of the most reliable, flexible and quality-minded ball valve manufacturers in the world. With years of ball valve experience on which to build, we eagerly moved forward to realize our dream.



CATALYST, INJECTION & METERING BALL VALVE



KACE 82T & 83T SERIES TWIN BALL VALVES



HIGH PURITY BALL VALVES



KACE SPECIALTY / CUSTOM BALL VALVES



HIGH-PRESSURE THREADED BALL VALVES



KACE 36, ML & MT SERIES THREE-WAY FLANGED BALL VALVES



KACE SPECIALTY / CUSTOM BALL VALVES



METAL SEATED BALL VALVES

KACE F SERIES FLOATING BALL VALVES



KACE T SERIES TRUNNION MOUNTED





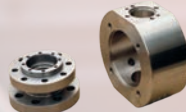
# VATAC

**VATAC** is an international leading manufacturer and supplier of industrial valves. Specialized in the designing and manufacturing of Ball valves, Gate valves, Globe valves, Butterfly valves, Through Conduit Gate Valves, Knife Gate Valves, Bellow Valves, and Strainers since 1970s.

## Ball Valves



Small Size Ball Valve



Floating Ball Valve



Trunion Ball Valve



Full Weld Ball Valve



Top Entry Ball Valve



Segment Ball Valve



Double Block & Bleed Ball Valve

## Gate Valves



Slab Gate Valve



Knife Gate Valve



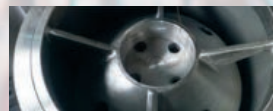
Resilient Seated Gate Valve



Metal Seated Gate Valve

## Check Valves

Wafer Check Valve



Non-Slam Nozzle Check Valve

## Other Valves:

Butterfly Valve



Plug Valve



Foot Valve



Globe Valve



## Other Products:



Manifold



Expansion and Joint



Flange, Adapter, and Fittings



Strainer





**Versa** designs, manufactures, and delivers valves and related accessories to meet those application-critical specifications. We partner with customers to specify and ship the right valves quickly, so you're up and running with unprecedented speed.

Valves



V Series Valves



C-316 series



V-316 series



Namura- E5 Series



H Series



T Series



Namura : C- 316



C Series



E5 Series



E4 Series



D-316 series



Namura- C Series



E Series



B-316



B Series



E3 Series



E Series



EZ Series



H Series







# HUAYANG STEEL PIPE

Huayang Steel Pipe is the Largest ERW and LSAW steel pipe manufacturer in Northern China.

## WUJIN®

Wujin Stainless provides R&D manufacturing and sales of stainless steel and nickel alloy seamless pipes, welded pipes, fittings and flanges to energy industry and multiple high-end equipment manufacturing fields.







## CORE PRODUCTS SERVICES

### Actuators & Valves

- Engineering, Sizing, & Product Selection
- Supply, Installation, Testing & Commissioning
- PMS, Repair & Rehabilitation, Emergency
- Maintenance, Field Servicing
- Condition Evaluation & Troubleshooting
- Motorization of old and new manual valves
- Technical Support & Training

### Instrumentation

- Application Engineering/Technical Support
- Preventive Maintenance
- Installation and Commissioning

### Serviced Brands

- Flowserve Valves & Controls: Valtek, Automax, Limitorque, PMV, Logix, Edward
- Jerguson & Endress+Hauser Instruments
- Neway Valves



Valves | Electric Actuators | Pneumatic Actuators & Controls | Instrumentation & Analysis





## REFERENCE PROJECTS



**Quezon Power (Restoration of Limitorque MOVs)**



**MAYNILAD Parañaque (Installation of Power Cab Canopy for Ammonia and Nitrate Analyzer)**



**Aggreko- Installation and Commissioning of Coriolis Flowmeter**

ICON Service Engineers undergo intensive product trainings. They are equipped with enough knowledge, skills, and experience to provide quality services to clients.



# CONVENTIONS, CONFERENCES & FORUMS



**ICON & Endress+ Hauser  
at PCPUG's 23rd  
Technical Forum**



**Water Philippines/  
PhilEnergy Convention 2023**



**71st PSME National  
Convention 2023**

ICON ensures its participation and commitment to join conventions and forums, showcasing a wide range of quality industrial equipment and engineering services to give value to both clients and partnered companies.



**9th PSME Visayas  
Regional Conference**



**Endress+Hauser Global  
Forum & ASFM (Annual  
Sales Force Meeting)**



**FLOWERVE Distributor Sales  
Conference 2023 held at  
Intercontinental Bangkok**





# INTERNAL TRAININGS & SEMINAR



**Flowserve Product Training**



**NEWAY Valve Maintenance Training**



**ICON Leadership Training- SEDA Vertis North**



**Endress+Hauser Product Training**



**ICON In-house training**



**Limitorque Product Seminar**



## OUR CLIENTS

### POWER GENERATION



### MINING INDUSTRY



### GEO THERMAL EXPLORATION



### OIL REFINERIES / BULK STORAGE



### WATER INDUSTRY





## MOBILE WORKSHOP

to provide a flexible and efficient workspace within a facility or even to different sites as needed.



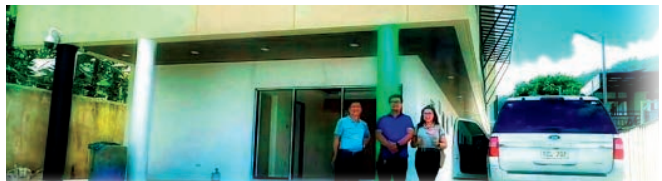
CT20-4 Optional  
DNV 2.7 / EN1207



KVS 369/65 Transport box  
with grinding tools and  
with abrasive set

## OFFICE & WORKSHOP EXPANSION

To cater projects in the southern part of Luzon there is construction and development of offices and workshops at Bay, Laguna



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(+63) 9171157970

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Industrial Controls Systems, Inc.



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