Field Instruments and Analyzers: Products and Services for North America
The acute angle and sharp straight edges of the top half of the diamond symbol represent Yokogawa's cutting-edge technology while the gentle curvature of the bottom half represents the warm-hearted nature of Yokogawa's people.

By balancing these two elements, Yokogawa aims to contribute toward the realization of a thriving global society in much the same way as the sun. This property is reflected in the bright yellow color of the diamond.

Yokogawa Core Values

Respect
We respect and trust each other and create an environment where individuals can exercise initiative and support each other.

Value creation
We work together with our colleagues and customers to create value, thereby enhancing efficiency and achieving overall optimization.

Collaboration
We collaborate with and support each other and our customers to achieve mutual objectives and maximize results. We collaborate with our stakeholders to achieve mutual objectives.

Integrity
We build trust by demonstrating uncompromising honesty and integrity at work.

Gratitude
We show appreciation and thankfulness for the kindness of others and benefits received at work, creating a positive work environment.

Our Social Mission

Yokogawa has pursued more than business success during its history of over 100 years. We have focused on the advancement of industry and technology, and how we can contribute to the realization of a better society. Today, as sustainability is essential for the environment, society, and the economy, Yokogawa is working with our customers to create new value in order to build a healthy planet for future generations.

While collaborating with our many customers around the world, Yokogawa aims to resolve environmental, societal, and economic issues toward the realization of a sustainable future.

Yokogawa will work to achieve net-zero emissions, make a transition to a circular economy, and ensure the well-being of all by 2050, thus making the world a better place for future generations.
About Us

Yokogawa Corporation of America is a wholly owned subsidiary of Yokogawa Electric Corporation. We partner and co-innovate with the North American energy and chemical industries to achieve optimum operability and competitiveness. With a 60-year track record in North America delivering leading-edge measurement, control and information solutions, the business is headquartered in Houston, TX and is supported by other domestic manufacturing and service locations across the U.S., Canada and Mexico. Our expansive portfolio of state-of-the-art manufacturing, engineering and service solutions addresses current demands of clients’ operations while our innovate-forward philosophy anticipates and solves tomorrow’s challenges.

Founded in 1915, Yokogawa Electric Corporation engages in broad-ranging activities in measurement, control, and information technologies. The industrial automation business provides vital products, services, and solutions to a diverse range of process industries including oil, chemicals, natural gas, power, iron and steel, and pulp and paper. With the life innovation business, the company aims to radically improve productivity across the pharmaceutical and food industry value chains. The test & measurement, aviation, and other businesses continue to provide essential instruments and equipment with industry-leading precision and reliability.

Yokogawa co-innovates with its customers through a global network of 114 companies spanning 62 countries.

For more information, please visit www.yokogawa.com

The Yokogawa Philosophy

As a company, our goal is to contribute to society through broad-ranging activities in measurement, control, and information technologies.

Individually, we aim to combine good citizenship with the courage to innovate.

Contact Us

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Sales | (800) 888-6400
Tech Support & Service | (800) 524-7378
support@us.yokogawa.com
Mon-Fri, 8AM-5PM ET
24/7 for emergencies

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Newnan, Georgia
Baton Rouge, Louisiana
Sugar Land, Texas

Mexico City, Mexico
Wayne, Pennsylvania
Newnan, Georgia
Baton Rouge, Louisiana
Sugar Land, Texas

• Calgary, Canada
  • Sales, Engineering & Service Operations
• Salt Lake City, Utah
  • Technology Service Center
  • Training
• Carrollton, Texas
  • U.S. Technology Center
• Coldspring, Texas
  • Advanced analytical engineering, design & construction
• The Woodlands, Texas
  • Open Process Automation Test Bed
• Freeport, Texas
  • Advanced analytical field service & installation
  • Training
• Mexico City, Mexico
• Calgary, Alberta
  • Canada
• Salt Lake City, Utah
• Carrollton, Texas
• Coldspring, Texas
• The Woodlands, Texas
• Freeport, Texas
• Mexico City, Mexico

North American Headquarters
Our Products and Solutions

**EJA & EJX Pressure Transmitters**
- DPharp sensor technology provides simultaneous measurement of DP and static pressure
- Class leading total accuracy and long-term stability up to 15 years
- Fast response time of 90ms
- Built-in compliance to IEC61508 as standard
- Multi-variable transmitter available with compensated mass flow output

**AXG Magnetic Flowmeters**
- Exclusive dual frequency excitation method ensures quicker response, reduced noise, and greater stability in high concentration slurries
- Advanced diagnostics with built-in health check verification, detection of flow noise, electrode coating, and conductivity changes
- Micro SD for easy duplication, data logging, or offline maintenance
- Flat spec accuracy up to 0.15% and measurement of fluids with conductivity as low as 1uS/cm
- Ethernet/IP ready and 3A approved

**RotaMASS Total Insight Coriolis Flowmeters**
- Unique “box-in-box” design decouples the measuring tubes from pipeline stresses and vibration guaranteeing reliability
- Easy installation design
- Uninterrupted and reliable measurement under extreme aeration conditions by utilizing Smart Power Management
- Tube Health Check function for in-line meter verification without disturbing process measurement
- Net Oil and advanced concentration measurements
- NTEP and 3A Approvals

**AXR 2-wire Magnetic Flowmeters**
- Premium performance from field proven dual frequency excitation comparable to 4-wire meters
- Reduced installation costs by avoiding the extra AC power supply and wiring. Lifetime power savings due to 1-4% of power usage compared to typical 4-wire magnetic meters

**digitalYEWFLO Vortex Flowmeters**
- Easy installation, with flange or wafer process connections
- No zero adjustment is needed
- No moving parts make vortex flowmeters highly durable and reliable
- Uniting noise reduction and Spectral Signal Processing (SSP) to provide an accurate and stable measurement
- Robust construction of the shedder bar makes measurement at high temperatures (max. 450°C) and high pressure possible

**YTA Temperature Transmitters**
- Single or dual input temperature transmitter
- Dual compartment, ultra-low copper housing
- No zero adjustment is needed
- No moving parts make vortex flowmeters highly durable and reliable
- Uniting noise reduction and Spectral Signal Processing (SSP) to provide an accurate and stable measurement
- Robust construction of the shedder bar makes measurement at high temperatures (max. 450°C) and high pressure possible

**Field Wireless**
- ISA100.11a (IEC62734) open standard supported by many vendors
- Object oriented, IPv6 communications supports IIoT, and future applications
- Stable, deterministic networks with TDMA, duocast, and up to 0.5 sec update
- Multiple levels of industry leading wireless security
- Flexible, highly scalable, fully redundant network designs from Sky Mesh to star
- Up to 10 year battery life with easy, low cost replacement
- ISA100 infrastructure plus pressure, temperature, protocol, and I/O transmitters
- Modbus/TCP connectivity to DCS, SCADA, or DAQ including extensive diagnostics

**Sushi Sensors**
- Automated plant equipment health monitoring to replace manual operator rounds and digitize data
- Industrial IoT sensor with long-range capability via LoRaWAN
- Easy plug and play installation with intuitive set-up from Smart phone application
- Artificial Intelligence and data monitoring on-premise and/or in the cloud
- FM approval for hazardous locations

**MLX Field Mount Loop Indicator**
- 4-20 mA DC input
- Explosion-proof housing
- 6 digit numerical or alphanumeric display
- 20 segment bar graph indicating 0 to 100% of full scale
- Square root extraction from a differential pressure transmitter signal for flow measurement

**Rotameters**
- Direct measurement and indication
- Easy installation with low maintenance
- Various process connection and wetted materials
- Available in either glass or metal
- Countless options such as Exi-version, adjustable limit switches, pulse output, etc.
SMARTDAC+ GX/GP
Paperless Recorders
- Modular construction, scalable from 30 to 100 input channels on the main unit, and expandable to 450 input channels
- Built-in Artificial Intelligence with “Future Pen” predictive waveforms and “Future Alarm” to predict problems
- Ultimate data integrity complying to FDA 21 CFR Part 11
- Easy integration to PLCs and DCS via EtherNet/IP
- Intuitive touch screen to visualize and search for data, write freehand messages, and more
- Modules can support measuring TC, DCV, RTD, DI, and DO
- Fast selectable scan intervals from 1 ms to 5 sec
- Secure and reliable data storage to both internal (500MB standard and 1.2GB Large) and external (up to 32GB) storage media

SMARTDAC+ GM10 Modular Data Acquisition System
- Scalability: Up to 420 channels per system / plug and lock modules
- Ease of Use: Web-based configuration / Live Web-based data viewing
- Mobile Connectivity: Bluetooth / Mobile Application
- Open Network: Modbus, EtherNet/IP, SLMP, and OPC-UA server
- Reliability: High accuracy measurement, Ultimate data security complying to FDA 21 CFR Part 11
- Noise Torrance: Electromagnetic relay module
- PID, Program control, and high speed (1ms) measurement options

GA10 Data Logging Software
- PC based, monitors and records data from a variety of instruments networks
- AI anomaly detection and notification
- Cost-savings through demand monitoring

DXAdvanced Data Acquisition and Display Station
- Built-in standard Ethernet interface
- Web server, E-mail messaging, MODBUS TCP client/server, SNTP, DHCP, Ethernet/IP, PROFIBUS-DP and more
- On-board data storage and trending for up to 348 channels. FDA regulation 21 CFR Part 11 compliant
- High-resolution, customizable display
- Universal inputs accept any input combination

UTAdvanced, TC10, and YS1000 Series
Industrial Controllers
- Advanced PID control, ladder sequence control and fuzzy logic
- Function block programming
- Bright and easy to read color LCD displays with scrolling text
- Multiple communications protocols, Ethernet, Modbus, PROFIBUS, CC-Link, DeviceNet
- Three-year warranty and NEMA 4 face

μR10000 & μR20000
Chart Recorders
- Industrial 100 and 180mm intelligent strip chart recorders
- Ethernet and serial communications interface options
- Large, bright, multi-function data display and user interface

Y-Flow® - YFFC Orifice Flow Computer
- Field Flow Computer with embedded EJX910 Pressure Transmitter
- Static and Differential Pressure Measurement all in one transmitter
- API Chapter 21 compliancy
- AGA 3, 5, 7, 9, 11 capability
- AGA 8 (Detailed & Gross Methods I & II) & NX-19
- Multiple run capability
- Wide array of wireless connectivity options (Cellular, wireless radio and satellite)
- Wellpad Monitoring & Control, Gas Measurement, Gas Control & Distribution

Y-Flow® - YRTU Remote Terminal Unit
Yokogawa’s low power RTU offers flexible I/O points and superior data collection with a wide range of connectivity options. Whether measuring gas flow for custody transfer or performing wellhead control and monitoring, Yokogawa offers both the performance and stability required in the most rigorous environment.

Artificial Intelligence Solutions
Yokogawa’s AI solutions are focused on producing concrete results in abnormal sign detection, root cause analysis, and quality estimation. AI options are available on SMARTDAC+ GX/GP Recorders, GA10 Software + Sushi Sensors, and e-RT3 controllers.


**DD Direct**

**Handheld HART® Communicator**
- Reads manufacturers’ DPs in their native format without the need for translations
- HART®-compliant modem communicates with any registered or unregistered HART® device
- Features an ergonomic, handheld design
- Enhanced 4.3” diagonal anti-glare touchscreen with color graphic display (no stylus required)
- Full QWERTY keyboard for commissioning new transmitters

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**FieldMate**

- Field Device Configuration and Management Tool
- HART, Profibus, ISA100, Modbus RTU, Foundation FieldBus, BRAIN
- Enhanced operations of product verification, calibration support, and primary element configuration
- Also Available in Class I Div 2 Tablet

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**Test & Measurement**

**DL350**
- A4-sized compact chassis
- Touchscreen operation
- 2 slots for 20 types of input modules
- Up to 32 Ch with 2 16-channel scanning inputs installed
- Oscilloscope mode and Memory Recorder mode for ease of use
- Up to 50 days recording onto SD card
- Up to 100 MS/s input cards available

**DL850E**
- 20 unique plug-in modules offer sensor connectivity, high accuracy, and low noise
- 2 GPs memory plus real-time streaming to computer, internal, or external hard-drives
- Simultaneous high and low speed recording
- Web server, FTP, and e-mail functions via Ethernet
- Extensive math and waveform analysis functions
- USB, GPIB, Ethernet, IRIG, and GPS interface options

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**CA500**

**Multi-Function Process Calibrator**
- Accuracy of 0.015% (DC current), 0.020% (resistance), and 0.3°C (RTD)
- Sources and measures DC voltage, DC current, RTD, TC, resistance, frequency and pulse signals
- Corresponds to 17 types of TC standard (JIS/IEC/DIN/ASTM/GOST R)
- Corresponds to 14 types of RTD standard (JIS/IEC/GOST R)
- Multiple source patterns: linear sweep, step sweep, and program sweep functions

**CA700**
- Achieves the highest accuracy in the portable class
- Achieves the highest resolution and widest range in the portable class
- Strong support for field calibration and maintenance work
- IP54 robust case enables use in harsh environments
- Three high-performance hand pump models for different pressure ranges are available

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**CW500**

**Power Quality Analyzer**
- Simultaneously measures 3 CH Voltage input, 4 CH current clamp probe input, 2 CH DCV input
- Log anything from single-phase two-wire to three-phase four-wire systems, and everything in between
- Capture irregularities in your power system such as voltage sags, dips, swells and log them conveniently to RAM or an SD card
- Log up to 50th orders of harmonics
- Vector display for convenient tracking of voltage/current phase relationships
- Measurement method conforms to IEC standard 61000-4-30 Class S

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**MT300**

**Digital Manometer**
- High measurement accuracy of 0.01% as relative accuracy
- Gauge, absolute, and differential models: 10kPa to 70MPa
- Long-term stability performance guaranteed with a measurement accuracy of 12 months
- Various functions for field device calibration, including 24 VDC transmitter output, built-in communication resistance, and Li-ion battery operation
Liquid Analyzers & Sensors
- Single point or multi-channel options for analog or digital sensors
- pH and ORP, conductivity, inductive conductivity and dissolved oxygen measurements
- HART®, Modus, Ethernet, Foundation Fieldbus™, PROFIBUS™
- On-line sensor diagnostics
- Predictive maintenance and sensor replacement

Model GD402
Gas Density Analyzer and Detector
- Highly responsive
- Outstanding, stability and resistance to vibration
- Simple, user-friendly interface
- General purpose and explosion-proof

Zirconia Oxygen
Analyzers and Detectors
- Single point and multi-point analyzers
- HART®
- Long-life, highly reliable Zirconia sensor
- Field replaceable probe heater assembly
- Remote and integral converters

Model GC8000
Process Gas Chromatograph
- TCD, FID and/or FPD detectors
- Custom column design to fit a wide variety of applications with intuitive 12” touch screen interface
- High-sensitivity Thermal Conductivity detector (HTCD) measuring range into the low parts-per-million often replacing Flame Ionization Detectors (FID) and/or Flame Photometric Detectors (FPD)
- High speed Ethernet based analyzer communications and PC interface
- Single or multiple ovens available with multiple system clocks; isothermal and programmable temperature designs available
- GC module (GCM) concept for intuitive, modular parallel chromatography and user defined functions using Y-Basic
Lifecycle Excellence Solutions

Support services sustain and enhance existing automation assets to ensure reliability, increase availability, and provide the path to the next generation of platforms and solutions.

- Lifecycle maintenance agreements
- Remote support solutions
- Upgrades, additions, and expansions
- Cyber security and endpoint security
- Plant security management
- Advanced solutions and consulting
- Parts management programs
- Technical assistance and global support

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Service and Support 24/7
support@us.yokogawa.com

Training Solutions

We provide options for personnel to review fundamental principles, sharpen existing skills and learn how to integrate new advanced strategies.

- Classes are available at our training centers for a hands-on experience and in-depth instruction
- Classes also offered online, on-demand and on-site

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Local Delivery, Global Experience

North American Network
- 800+ Employees
- 250 Independent Manufacturers Representatives

Yokogawa Canada (Calgary, Alberta)
Yokogawa México (Mexico City)
Yokogawa Colombia (Bogota)
Yokogawa Chile (Santiago)
Yokogawa Argentina (São Paulo)
Yokogawa Américas do Sul (Brazil) Measurement Instruments
Yokogawa Angola (Luanda)
Yokogawa Russia (Moscow) Field Instruments
Yokogawa Europe (Netherlands) Analytical Instruments
Yokogawa Corporation of America (Sugar Land, Texas USA) Field Instruments Test & Measurement Analytical Instruments Control & Data Acquisition Instruments
Yokogawa Corporation of America (Newnan, Georgia USA) Field Instruments Test & Measurement Analytical Instruments Control & Data Acquisition Instruments
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GERMANY
Field Instruments

North American Network
- 800+ Employees
- 250 Independent Manufacturers Representatives
Global Service Network
- 230 Service offices in 80 countries
- 2,600 Service Engineers

Main Factories in Japan
- Kanazawa: Life Science-related Equipment
- Komagane: Silicon sensors
- Kofu: Field Instruments, Measuring Instruments, Analytical Instruments
- Komine: Analytical Instruments
- Yokogawa New Zealand (Auckland)

Yokogawa Owned Manufacturing Organizations
Our 25 manufacturing facilities span 13 countries