



OpreX™

Yokogawa Product Solutions

Transforming Businesses

Yokogawa supports customers who are redefining themselves to take on social issues.

Many customers are transforming their businesses so that they can help to make the world a better place. Yokogawa has a proven record in optimizing value chains and helping customers get the most out of their facilities over the entire plant lifecycle. That is why Yokogawa's products and other solutions continue to be preferred.

Industrial Automation and Control Business

Energy & Sustainability Materials Life

OpreX™

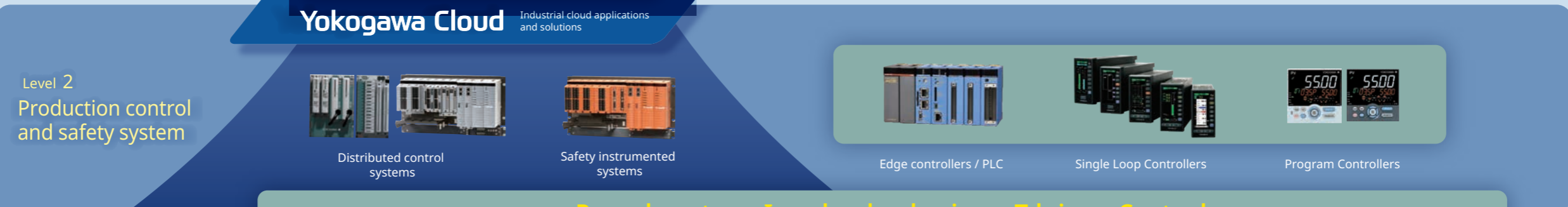
OpreX is the comprehensive brand for Yokogawa's industrial automation and control business.

We provide products, services, and solutions that span every level of activity, from the collection of data generated in the field to the optimization of corporate management.

IT
Information Technology



Collaborative Information Server
Yokogawa Cloud Industrial cloud applications and solutions

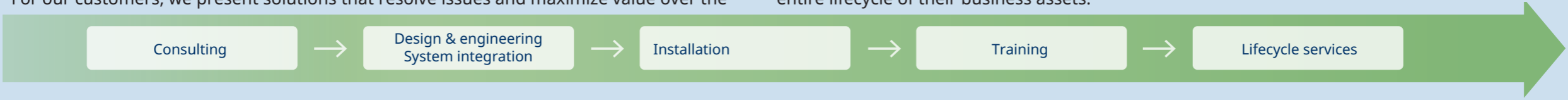


Products Included in This Catalog

OT
Operational Technology



For our customers, we present solutions that resolve issues and maximize value over the entire lifecycle of their business assets.



Field Instruments

Note: **Liq**, **Gas**, and **Stm** symbols indicate applicable process fluid types (liquid, gas, steam).

Pressure Transmitters

EJX Series Differential Pressure and Pressure Transmitters



The high-performance differential pressure transmitter features single crystal silicon resonant sensor and is suitable to measure liquid, gas, or steam flow as well as liquid level, density and pressure.

Its highly accurate and stable sensor can also measure the static pressure.

EJA Series Differential Pressure and Pressure Transmitters



The differential pressure transmitter features single crystal silicon resonant sensor and is suitable to measure liquid, gas, or steam flow as well as liquid level, density and pressure.

Temperature Transmitters

YTA Series Temperature Transmitters



The highly accurate temperature transmitter that accepts Thermocouple, RTD, ohms or DC millivolts inputs and converts it to a 4 to 20 mA DC or Fieldbus signal for transmission.

Head mount type
A head mount type conforms to the standard DIN form B head mounting.

Panel mount type
A panel mount type conforms to the standard DIN rail mounting and supports HART communication protocol.

Fiber Optic Temperature Sensor



Distributed temperature sensing (DTS) measures temperature distribution over the length of an optical fiber cable using the fiber itself as the sensing element.

Field Wireless

Field Wireless Management Station / Access Point

YFGW410



YFGW520



Field Wireless Gateway Module

This product is based on the industrial automation wireless communication standard ISA100.11a.

This product has backbone router function based on ISA100.11a, and combining this with Field Wireless Management Station and/or Field Wireless Media Converter composes the field wireless system.

FN110-R1 / LN90



FN310 Field Wireless Multi-Protocol Module



Wired HART transmitter

Convert a wired transmitter, sensor or device into wireless

FN510 Field Wireless Multi-Function Module



DI / DO, AI, Pulse count, Vibration sensor (LVDT)

Common Features

- ISA100 Wireless™ certified
- Network Topology — Star, Mesh, Designed mesh (mesh route is designed manually)
- Power supply — Battery
- Function as network device — IO auto, IO, IO and repeater, repeater
- Update period — from 0.5 to 3600 seconds (depend on function)
- Ex Certification — ATEX, FM, CSA, IECEx

EJX-B Series Wireless Differential Pressure / Pressure Transmitters



Liq Gas Stm

YTA510 Wireless Temperature Transmitter



Provide optimized wireless performance and identical sensor capability to wired one

Converter

PK200 Current-to-Pneumatic Converter



Used mostly to actuate valves, cylinders or other terminal elements. It is used as a simple signal converter in hybrid instrumentation comprising electronic and pneumatic instruments.

Configuration Tool

FieldMate Versatile Device Management Wizard



FieldMate is a PC-based tool for device configuration and management.

Pressure Calibrator

CA700/PM100 Pressure Calibrator / External Pressure Sensor



The pressure calibrator specifically designed for the differential pressure and pressure transmitters.

Level Transmitters

EJXC80A / EJAC80E Diaphragm Seal System (Direct Mount Seal)

Diaphragm seals are used to prevent process medium from entering directly into the pressure-sensing assembly of the differential or Gauge pressure transmitter.



Liq

EJXC80A / EJAC80E Diaphragm Seal System (Remote Mount Seal)

Ideal for measuring the levels and densities of corrosive and high-temperature fluids. Small flange size model available.



Liq

EJXC40A Digital Remote Sensor

Digital Remote Sensor Transmitter connects two pressure sensors, primary (high pressure side) and secondary (low pressure side) in a remote location, with DRS dedicated communication cable to measure differential pressure.



Liq

EJAC60E Hygienic Adapter System Pressure Transmitter

Hygienic Adapter System (Fluidless Type) consists of EJA560E Hygienic gauge pressure transmitter (Fluidless Type) and C10SA Hygienic adapter.



Flowmeters

Magnetic Flowmeter CA Series



Liq

Uses a capacitive sensing method with high-frequency excitation to enable stable, low-noise measurement of low-conductivity and challenging fluids, such as adhesive and slurry fluids, while offering easy maintenance and lifecycle-support functions that simplify selection, assist commissioning, safeguard processes, and enhance operational insight.

ROTAMETER Variable Area Flowmeter



Liq Gas

For robust flow indication, whether in power-free mechanical form using magnetically-coupled metal tubes or direct-reading glass tubes, and with optional transmitter/output versions, individually calibrated Rotameters deliver high-accuracy, durable performance across transparent, opaque, and even aggressive process fluids.

ROTAMASS Total Insight Coriolis Mass Flow and Density Meter



Liq Gas

Delivers best-in-class Coriolis measurement accuracy with a wide sensor portfolio (from hygienic/low-flow to high-pressure and large sizes), robust performance under entrained gas, and in-line verification/advanced diagnostics, Tube/Total Health Check for predictive maintenance with Total Insight concept for simple setup, operation and lifecycle management.

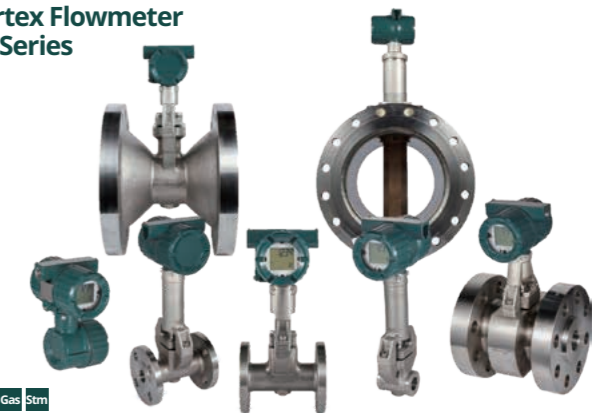
ADMAG Total Insight AXG and AXW Magnetic Flowmeter



Liq

Comprising of AXG, the high-tier, and AXW, for general-purpose models, are Yokogawa's Total Insight magnetic flowmeter family with dual-frequency excitation, advanced diagnostics and verification, enabling both models to deliver stable, accurate, and easily maintainable measurement across demanding industrial to general-utility applications within a common lifecycle-support platform.

Vortex Flowmeter VY Series



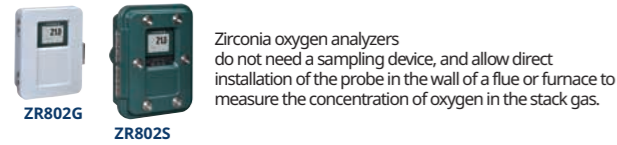
Liq Gas Stm

The VY Series features highly versatile vortex flowmeters. It measures the flow rate of liquid, gas, and steam by measuring the Karman vortex street that occurs behind the shedder bar. Integrate enhanced diagnostics, built-in temperature sensing, current input for full steam/energy compensation, and a wide application range for liquids, gases, and steam, delivering stable, accurate, and maintainable measurement across the entire lifecycle.

Gas Analyzers

Oxygen Analyzers

ZR22 / ZR802 / ZR202 Zirconia Oxygen Analyzers



Zirconia oxygen analyzers do not need a sampling device, and allow direct installation of the probe in the wall of a flue or furnace to measure the concentration of oxygen in the stack gas.



AV550G Averaging Converter

The AV550G Averaging Converter can accept inputs from up to 8 zirconia oxygen detectors.



OX400 Low Concentration Zirconia Oxygen Analyzer

The OX400 is a highly accurate and reliable low-concentration zirconia oxygen analyzer that can measure a wide range of concentrations, from 0-10 ppm up to 0-100 vol% O₂.



MG8G / MG8E Paramagnetic Oxygen Analyzers

The MG8E Paramagnetic Oxygen Analyzer measures oxygen concentration based on the principle that gaseous oxygen is attracted by a magnetic field.

Laser Analyzer

TDL8000 Tunable Diode Laser Spectrometer



The non-contacting sensor allows for a variety of process types including corrosive, abrasive and condensing. The platform has been proven in many others for the measurements of O₂, CO, CH₄, NH₃, H₂O and many more NIR absorbing gases.

TDL8200 Probe type Tunable Diode Laser Spectrometer



The TDL8200 is installed in-situ, directly into the process eliminating the need for sample extraction and conditioning providing a near real time measurement.

TDL5500 High Sensitivity Laser Spectrometer



The TDL5500 is a computerized device that measures the amount of gas contained in the process in real time. Gases are measured in parts per million (ppm by volume) or in milligrams per normal cubic meter (mg/Nm³) in the sample.

Infrared Gas Analyzers (NDIR)

IR800G / IR810G Infrared Gas Analyzers

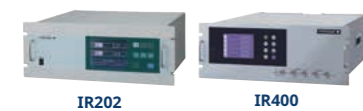


The Infrared Gas Analyzer uses non-dispersive infrared method to measure the concentration of NO, SO₂, CO, CO₂ and CH₄ components in the sample gas, and it measures O₂ using the paramagnetic or zirconia method.

IR810S Explosion-protected model Infrared Gas Analyzer



IECEX/ATEX ZONE1 compliant Pressurized enclosure explosion protected construction. Determinable purge-gas flow rate according to the gas composition to be measured.



IR202 / IR400 Infrared Gas Analyzers

Measures NO, CO, CO₂, CH₄, SO₂, and O₂, including a low-concentration type.

Gas Density Meter

GD402 / GD40 Gas Density Meter



The GD402 gas density converter and GD40 detector not only provide continuous measurement of gas density, but also several other valuable parameters, including specific gravity and molecular weight.

Gas Calorimeter

CM6G Gas Calorimeter



The CM6G Gas Calorimeter is used to measure and control the calorific value or Wobbe Index (WI) of the sample gas.

Gas Chromatograph

GC8000 Process Gas Chromatograph



A Process Gas Chromatograph analyzes a vapor or volatile liquid sample and then separates the various chemical components in the sample for individual detection and measurement.

Liquid Analyzers

Common Converter

FLXA402 4-Wire Converter



The FLXA402 is designed to accept traditional analog or SENCOM 4.0 digital Smart sensors. The FLXA402 offers the possibility of connecting to 5 sensor measurements at one time. The modular-designed converter is a multi-parameter instrument offering a wide range of measurement choices.

FLXA202 / FLXA21 2-Wire Converter



The FLXA202 2-Wire Analyzer offers single or dual sensor measurement. The modular-designed analyzer offers 4 kinds of measurements with the respective sensor module. Digital sensor measurement using SA11 SENCOM Smart Adapter is available.

FT-Near Infrared Analyzers

InfraSpec NR800 Fourier Transform Near Infrared Analyzers



The NR800 offers high-resolution, high Signal-to-Noise ratio, and wide wavelength scanning range measurement with its newly developed interferometer and detector.



Barcode reader provides easy operation for at-line and routine analyses. Reduces operating and maintenance costs by consolidation of lab and process calibration models and onsite hands-on training.

pH/ORP Sensors



pH / ORP Sensors for Process Use

Appropriate sensor for your application + SA11 Smart adapter
Analog sensor (-VP)

Smart Adapter

SA11 SENCOM Smart Adapter

The SENCOM Smart Adapter offers full measuring parameter functionality for analogue sensors equipped with Variopin connector and ID-chip. Automatic sensor recognition enables plug-and-play operation with high accuracy, diagnostics, and MODBUS communication.

Conductivity Sensors

Conductivity Sensors

Appropriate sensor for your application

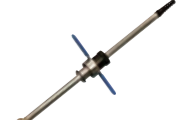


ISC40G / S Inductive Conductivity Sensors



Measuring range: 100 µS/cm 1999 mS/cm with a single sensor
Material: PEEK or Fluororesin (PFA)

PR10 Retractable Assembly



Can remove a sensor without shutting down the process. For pH/ORP, Dissolved Oxygen, Conductivity and Inductive Conductivity sensors

Portable Meters

PH91 / PH92 Portable pH, pH / ORP Meters



Accurate pH measurement
Durable design and Build-in Sensor Holders with waterproof (IP67) construction
Various useful functions; Diagnostics, Stability check, Backlit, 500 Data memory etc.

SC92 Portable Conductivity Meter



Wide range conductivity measurement
Durable design and Build-in Sensor Holders with waterproof (IP67) construction
Various useful functions; Diagnostics, Stability check, Backlit, 500 Data memory etc.

Dissolved Oxygen Sensors

DO71 / DO72 / DO30G Dissolved Oxygen Sensors



Measurement object: Measurement of dissolved oxygen in aeration tanks at sewage treatment plants.
Measuring range:
0 to 22.5 mg/L (ppm) (DO71)
0 to 22.5 mg/L (ppm) (DO72-W)
0 to 2 mg/L (ppm) (DO72-T)
0 to 20 mg/L (ppm) (DO30G)
Type of sensor:
Optical DO sensor (DO71, DO72),
Galvanic cell DO sensor (DO30G)

Turbidity Analyzers

TB820D, FLXA402T Right Angle Scattered Light Turbidity Analyzer



Right angle scattered light turbidity analyzer, composed of turbidity detector TB820D and liquid analyzer FLXA402T. Turbidity analyzer is more than ever demanded not only for water treatment, but currently for measurement/detection of suspended substances.

TB830D, FLXA402T Surface Scattering Light Turbidity Analyzer



The TB830D and FLXA402T adopting the surface scattered light method, which is less susceptible to contamination by non-contact with the sample, realizing high efficiency in facility operations with our latest digital sensor

MLSS Analyzer

SS400G MLSS Analyzer

The SS400 MLSS Analyzer is a measuring system suited to continuously and consistently measure the concentration of mixed liquor suspended solids.

Liquid Density Meter

DM8 Vibration Type Liquid Density Meter



The DM8 is a highly reliable, multi-function meter. Its converter incorporates a microprocessor to directly convert frequency signals from the sensor into density values and display them.

Chlorine Analyzers

FC800D, FLXA402T Non-reagent Type Free Available Chlorine Analyzer



Free available chlorine analyzer, composed of FC800D sensor unit and FLXA402T liquid analyzer, is suitable for managing water purification, distribution, and free chlorine control in uses.

RC800D, FLXA402T Reagent Type Residual Chlorine Analyzer



Residual chlorine analyzer composed of RC800D sensor unit and FLXA402T liquid analyzer is suitable for process manager and control at water treatment.

Information / Measurement / Control

Asset Management

A Wireless IIoT Solution

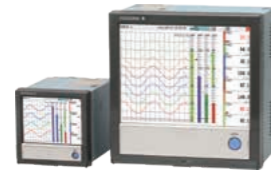


Sushi Sensor

Sushi Sensor is a wireless solution for the industrial IoT, including sensors for detecting equipment conditions.

Data Acquisition

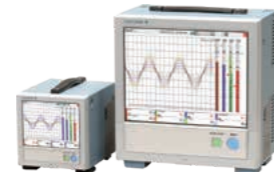
Panel Mount Paperless Recorders



GX10 / GX20 Paperless Recorder

The GX10/GX20 is a panel mount paperless recorder with a modular architecture that displays real-time measured data on a touch screen and save data on an external storage medium (SD card).

Portable Data Acquisition



GP10 / GP20 Paperless Recorder

The GP10/GP20 is a portable type paperless recorder with a modular architecture that displays real-time measured data on a touch screen and saves data on an external storage medium (SD card).

Control Devices

Programmable Logic Controllers



FA-M3

FA-M3 is a high performance PLC platform for reliable and real time industrial control. It is widely used in various industries for monitoring, sequence control, and system integration, offering high speed, robustness, and long term stability.

Digital Indicating Controllers



UT32A / UT35A / UT52A / UT55A / UT75A / UT32A-D

The UTAdvanced series digital indicating controllers provide high accuracy and reliable temperature control, combining advanced control functions with easy operation for a wide range of industrial processes.

Components

Signal Conditioners



JUXTA VJ Series

The JUXTA VJ series is a comprehensive lineup of compact plug-in type signal conditioners and transmitters that ensure accurate data conversion and reliable signal transmission in industrial applications.

Multi-Sensing Remote I/O



Analog Sensing Unit VZ20X

Multi-sensor remote I/O is a device that converts the analog signals of multiple sensors into accurate digital data and transfers it to a higher system for monitoring.

Surge Arresters



AR series

The high-performance AR surge arrester absorbs the potential of an inductive lightning surge caused by a lightning discharge to protect electronic instruments.

Power Monitors



Power and Energy Meter PR720

The PR720 is a switch board mount power monitor that accurately meets two needs: power equipment metering and energy saving monitoring.

Quality Control System

Papermaking-specific QCS



B/M 9000 VP integrates QCS and DCS(CENTUM) in a single-window interface, enabling operators to monitor machine control and quality parameters together. Its papermaking-specific control and modular O-type frame with built-in controller and sensor head ensure stable measurement and easy maintenance.

Battery Web Gauge



The Battery Web Gauge ES-5 is designed for electrode sheet coating machines and is also applicable to MLCC green sheet coating. It measures, monitors, and controls coating thickness, providing precise outputs to the coating machine for innovative and efficient operation.

Film / Sheet Thickness Gauge



WEBFLEX NV is a system for film making machines. This system accurately measures film and sheet thickness online to show distribution graphs("profile") and automatically control the thickness to produce uniform films and sheets.

Data Loggers



Data Acquisition System GM

The GM10 is a scalable, modular block I/O data acquisition system that offers exceptional versatility and expandability.

Data Logging Software



Data Logging Software GA10

GA10 is PC-based data logging application software that monitors and records data by connecting measuring instruments and controllers via communication, and monitors and records the collected data.

Realtime OS-based Machine Controllers



e-RT3 Plus

e-RT3 is an edge computing controller designed for industrial IoT and advanced data processing. It enables flexible application development using open technologies such as Linux and Python, and supports data acquisition, analytics, and integration with control systems and cloud platforms.

Program Controllers



UP32A / UP35A / UP55A

The UTAdvanced series program controllers offer high-accuracy temperature control and flexible program capabilities, supported by a comprehensive model lineup for diverse industrial applications.

Wide Area Monitoring System



The wide area monitoring system helps you solve various problems occurring at operation sites by consolidating centralized/distributed data on the cloud for integrated data management and remote monitoring.

Chart Recorders



µR10000 / µR20000 Chart Recorder

The µR series is an industrial chart recorder that records trends of electrical and mechanical signals such as voltage, humidity, temperature, and pressure. Measured data can be saved to an SD memory card while simultaneously recording on chart paper.

Single Loop Controllers



YS1000

The YS1000 series is a high-performance single-loop controller designed for precise and reliable process control in industrial applications.

Digital Indicator with Alarms



UM33A

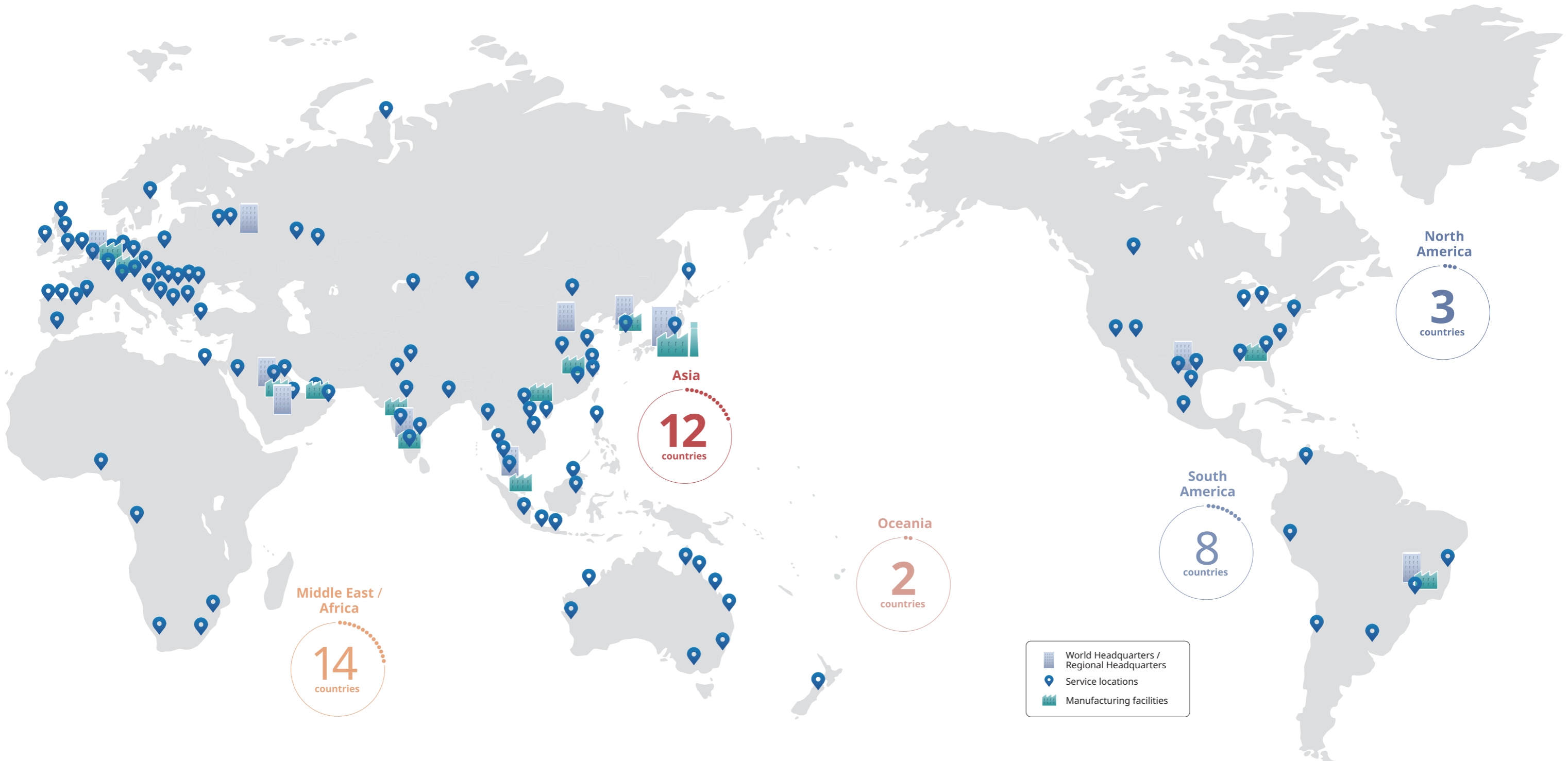
The UM33A is a digital indicator with alarms provides up to 9 alarms outputs and input correction function.

The World Is Our Stage

Yokogawa is committed to taking action for our planet and its future.

Yokogawa has cultivated trust-based relationships with our customers, working with them over the entire lifecycle of plant facilities that can be in use for thirty years or more. This solid customer base has allowed us to offer solutions that cover entire value chains and supply chains, further expanding the circle of value co-creation. As a good corporate citizen, Yokogawa aspires to grow and prosper alongside the communities in which we operate.

Global Network As of March 31, 2025



- World Headquarters / Regional Headquarters
- Service locations
- Manufacturing facilities

Customer
Portal site :



Product availability varies by region. Please contact your local sales representative for details.

Yokogawa Electric Corporation World Headquarters

<https://www.yokogawa.com/>

Yokogawa Corporation of America

<https://www.yokogawa.com/us/>

Yokogawa América do Sul Ltda.

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Yokogawa Europe B. V.

<https://www.yokogawa.com/eu/>

Yokogawa Electric CIS Ltd.

<https://www.yokogawa.ru>

Yokogawa Middle East & Africa B. S. C. (c)

<https://www.yokogawa.com/bh/>

Yokogawa India Ltd.

<https://www.yokogawa.com/in/>

Yokogawa China Co., Ltd.

<https://www.yokogawa.com/cn/>

Yokogawa Engineering Asia Pte. Ltd.

<https://www.yokogawa.com/sg/>

Yokogawa Electric Korea Co., Ltd.

<https://www.yokogawa.com/kr/>

Yokogawa Solution Service Corporation

<https://www.yokogawa.com/yjp/>

Yokogawa Test & Measurement Corporation

<https://tmi.yokogawa.com/>

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