

Yokogawa in the
Food and Beverage Industry



Trusted Hygienic and Sanitary Solutions

The food and beverage industry must produce safe, high-quality foods and beverages for consumers. In addition to quality control, the manufacturing processes include many challenges such as managing ingredients, improving efficiency, and handling global environmental issues. As a trusted partner, Yokogawa offers our expertise derived from decades of service to the industry.

Food and Beverage Segments

From quality and compliance to maximizing production and increasing reliability, the food and beverage industry has no shortage of challenges. Yokogawa's innovative solutions across the many applications in the food and beverage industry enable our customers to meet increasingly complex market demands.

- Beverage Processing
- Clean-in-Place (CIP)
- Dairy Production
- Flour and Feed Mills
- Food and Beverage Packaging
- Pet Food Manufacturing
- Soft Drink Production
- Sugar Refineries
- Water and Wastewater Treatment



Hygienic and Sanitary Pressure Transmitters

EJA565E / EJA564E



The EJA565E/EJA564E transmitter series is the ideal hygienic and sanitary solution for pressure and level measurement applications.

- Up to 0.075% of span accuracy
- Truly “flush” diaphragm technology
- Active temperature compensation for improved measurement stability
- Comprehensive selection of process connections



Batch Recording

Audit Trail

Pasteurization Heat Exchangers

Air Cleanliness Monitoring (Clean Rooms)

Process Control and Monitoring

Clean-in-Place (CIP)



APPLICATIONS

APPLICATIONS

Receiving Tank Level

Balance Tank Level

GEA Milk Separators

Brewery Level and Pressure Measurements

Pasteurization Heat Exchangers

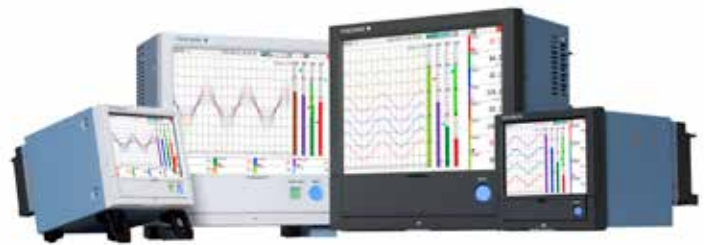
Clean-in-Place (CIP)

Separation and Sterilization Systems



Data Recorders

SMARTDAC+ Paperless Recorders



SMARTDAC+ Paperless Recorders feature intuitive user operation, dust and water proof displays, range of communication protocols, and AI functionality.

- FDA 21 CFR Part 11 compliant
- Secure electronic records, signatures, transfers
- Modular design supports 30 to 450 channels

EtherNet/IP™



Magnetic Flow Meters

ADMAG TI AXG



The ADMAG Total Insight (TI) AXG® is an electromagnetic flow meter featuring enhanced settings for customized setups, pre-defined trend views, and multiple configuration sets for fast changeover through a micro SD card. In the ADMAG TI AXG®, standard, built-in verification reduces the total cost of ownership.

EtherNet/IP™



APPLICATIONS

Clean-in-Place (CIP)

Mixing and Blending

Cheese Flavoring

Concentration of Milk

Feed Mill

Raw Milk

- Bioreactor Feeds
- Bottling and Carbonation of Beverages
- Deionized Water
- Juice Processing and Fermentation
- Molasses Measurement
- Online Sugar Concentration
- Raw Milk Tanker Unloading
- Process Water Reclamation
- Product Quality Control
- Essential Oils



APPLICATIONS

Coriolis Flow Meters

ROTAMASS TI Hygienic



Specifically designed for food and beverage, biotechnology and pharmaceutical utility applications, ROTAMASS TI is 3-A and EHEDG certified.

Optimized to work within the daily constraints of hygienic processes, ROTAMASS TI ensures continuous product quality while minimizing losses. It features in-line CIP/SIP, self-draining tubes, single and dual-stage batching functionality and sanitary process connections.



pH and Dissolved Oxygen in Breweries
 Water Treatment and Purification
 WIFI / Pure Water (Ingredient)
 Reverse Osmosis
 Wastewater Treatment
 pH in Sugar Refineries
 pH in Fish Farming
 Edible Oil and Fat Processing
 Clean-in-Place (CIP)



APPLICATIONS



Process Analyzers

pH, ORP, Conductivity, Gas/Dissolved Oxygen



Yokogawa's diagnostic-based analytical instrumentation offers the flexibility to meet a wide range of individual requirements. Producing the best quality food and beverage products requires precise monitoring and control of pH, ORP, conductivity, and gas / dissolved oxygen levels throughout the process.

Yokogawa's process analyzers and sensors enable manufacturers to SEE MORE and DO MORE.

IIoT Plant Asset Management

Sushi Sensors and GA10 AI Software



Upgrade from periodic operator rounds to automated data collection and analysis for rotating equipment in food and beverage facilities.

- Real time equipment health status
- AI algorithms learn "normal" operating conditions and predict failures through anomaly detection
- Schedule maintenance to reduce downtime



APPLICATIONS

AI

Compressor Vibration Monitoring

Pump Vibration Monitoring

Control Systems

Distributed Control Systems and Controllers



FA-M3



Batch Control compliant to ISA-88 (IEC-61512).



TC10



UTAdvanced

Whether the application requires a Distributed Control System (DCS), Programmable Logic Controller (PLC), single loop controller, or any combination, Yokogawa has the experience to build the right solution.

Join operators from over 10,000 plants who entrust Yokogawa's control technology to meet their production targets year after year.



APPLICATIONS



Temperature Control for Package Sealing

Chemical Dosing and Ratio Control

Clean-in-Place (CIP)

Heat Exchangers

Oven, Boiler, Distillation, Batch Control



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