

Accurate, reliable point and continuous level measurement optimized for hygienic applications



Accurate and reliable solutions for hygienic applications

When tasked with optimizing your plant's production, the smallest oversight can result in excessive downtime and lowered profitability. Installing hygienically-certified level instrumentation keeps your processes under control, maximizes production capacity and efficiency, and ensures stringent safety standards are met.

One of the challenges that breweries face is the need to increase plant throughput and maximize production capabilities, without affecting product quality.



- Chief Brewer, Vega Brewery.

Automating our processes helped us to reduce product losses and minimize production costs, by making fermentation procedures cost-efficient and sustainable.



- Distillery Manager, High Coast Distillery

Compliance with hygienic requirements, and the ability to get accurate and reliable measurements, were essential for the smooth running of our facility.



- Instrument & Equipment Director, Pharmaceutical Plant



"The ability to add ingredients with greater precision has enabled us to analyze and improve our processes and maximize the production capability at our plant."

Ulf Eriksson, Chief brewer, Vega Brewery

Hygienic Level Measurement

Full range of continuous and point level measurements



Optimize production capability and reduce product loss

The food and beverage and life science industries face market challenges due to increased demand for product differentiation and product quality, while trying to improve operational efficiency and reduce costs. Companies must seek new ways to achieve operational excellence to remain competitive in today's rapidly changing environment.

Our world-class expertise in measurement instrumentation can help you accomplish your goals and with our portfolio of hygienic instrumentation you can gain better control over your plant and overcome production challenges.

Our technologies meet standard industry regulations, ensuring food safety and product quality requirements are met. Use our level technologies and vast expertise to solve your challenges in the food and beverage and life sciences industry.



Wide range of process connections and brackets

Level Transmitters

Tri Clamp, DIN11851, VARIVENT® and D50 Weld-in *For Rosemount 1408H and 326L

Pressure Transmitters

Variety of food grade seals with attached Rosemount 1199 diaphragm seals

Accurate and reliable level measurement optimized for hygienic applications

Rosemount 2110 Vibrating Fork Switch



- Top or side mounted for hygienic point measurement
- Choice of switch outputs and selectable switch delay to prevent false trips
- Fast drip fork design to ensure cleanability
- Magnetic test point for quick and easy functional test

Rosemount 2120 Vibrating Fork Switch



- Top or side mounted for hygienic point measurement
- Choice of switch outputs and selectable switch delay to prevent false trips
- Fast drip fork design to ensure cleanability
- Magnetic test point for quick and easy functional test

Rosemount 2555 Capacitance Probe



- Top and side-mounted point measurement of solids
- Simple and quick commissioning with automatic calibration
- Continuous self-diagnostic probe function
- Active Shield Technology protects against material build-up

Rosemount 326L Level Transmitter



- Top-down contacting measurement for simple applications
- Compact stainless steel housing with minimal crevices and full breadth of hygienic connections
- Simple commissioning and configuration
- Conventional 4-20 mA output and IO-link connectivity

Rosemount 1408H Level Transmitter



- Non-contacting top-down measurement
- Compact stainless steel housing with minimal crevices and full breadth of hygienic connections
- FMCW and 80 GHz technology, focused beam angle with no dead zones
- Maintenance free, unaffected by process conditions
- Conventional 4-20 mA output and IO-link connectivity

Rosemount 1208A Level and Flow Transmitter



- Top-down non-contacting measurement for simple applications in utilities
- Compact and robust plastic housing ideal for outdoor conditions
- Easy to set up and configure
- Conventional 4-20 mA output and IO-link connectivity
- Quick and easy configuration over Bluetooth® wireless enabled technology

Rosemount 5408 Level Transmitter



- Top-down non-contacting measurement for challenging applications
- FMCW Technology with 26 GHz frequency and advanced echo logics
- Maintenance free, unaffected by process conditions
- Signal quality metrics for predictive maintenance

Rosemount Pressure for Level



- Side-mounted for challenging applications with internal obstructions
- Complete hygienic diaphragm seal offering
- Rosemount 1199 diaphragm seals available with all Rosemount pressure transmitters
- Power advisory lets you know if power is lost

Specifications and Applications

Specification and selection guide								
	Rosemount 2110	Rosemount 2120	Rosemount 2555	Rosemount 326L	Rosemount 1208A	Rosemount 1408H	Rosemount 5408	Rosemount DP Level
Measurement Type	Point measurement			Continuous measurement				
Accuracy	-	-	-	+/- 0.28 in (7mm)	+/- 0.08 in (2mm)	+/- 0.08 in (2mm)	+/- 0.04 in (1mm)	0.065% span
Process Temperature	-40 to 302 °F (-40 to 150 °C)	-40 to 302 °F (-40 to 150 °C)	-40 to 932 °F (-40 to 500 °C)	-40 to 302 °F (-40 to 150 °C)	-40 to 176 °F (-40 to 80 °C)	-4 to 302 °F (-20 to 150 °C)	-13 to 392 °F (-25 to 200 °C)	32 to 302 °F (0 to 150 °C)
Process Pressure	-3.62 to 1450 psi (-0.25 to 100 bar)	1450 psi (100 bar)	363 psi (25 bar)	-14.5 to 580 psi (-1 to 40 bar)	-14.5 to 43.5 psi (-1 to 3 bar)	-14.5 to 116 psi (-1 to 8 bar)	1450 psi (100 bar)	-5 psi to 800 psi (-0.34 to 55.2 bar)
Hygienic Approvals	3-A® EHEDG FDA	3-A® EHEDG FDA	EHEDG	3-A® EHEDG FDA	FDA	3-A® EHEDG FDA	3-A® FDA	3-A® EHEDG FDA ASME BPE
Ex Approvals	-	-	+	-	-	-	+	+
Outputs								
4-20mA	-	-	-	+(1)	+(1)	+(1)	+	+
FOUNDATION™ Fieldbus	-	-	-	-	-	-	+	+
IO-Link	-	-	-	+	+	+	-	-
HART®	-	-	-	-	-	-	+	+
Relay	-	+	+	-	-	-	-	-
PNP/PLC	+	+	-	+	+	+	-	-
Direct load	+	+	-	-	-	-	-	-
8-16mA	-	+	-	-	-	-	-	-
Wetted materials								
Polished stainless steel	+ (2)	+ (2)	+	+	-	+	-	+
Food grade PTFE	-	-	-	-	+	+	+	-
Food grade PPS GF40	-	-	+	-	-	-	-	-

⁺ Available

⁽¹⁾ Not loop powered

⁻ Not available

⁽²⁾ Machined, electropolished, mechanical polish

^{*}See product data sheet for full specifications

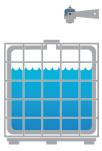
Optimize production capability and efficiency, while ensuring that stringent safety standards are met

Storage and buffer tanks



Automate filling and emptying cycles and prevent overfills and spills with accurate, reliable level instrumentation that is easy to install, configure, and operate.

Plastic tanks



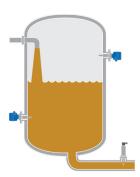
Measure level in IBC containers used to store cleaning chemicals or food flavorings, with robust devices that can withstand harsh environments.

Mixers and blending tanks



Ensure batch to batch consistency with high accuracy instruments. Instrument sensitivity ensures typical process conditions – e.g. turbulences do not pose a challenge.

Alcohol storage



Protect pumps, prevent run-dry situations and production shutdown with compact, low intrusion level switches that can handle challenging environments.

CIP Processes



Get reliable level measurement during and after cleaning, plus optimization of cleaning agent storage.

Solids level detection



Get solids level detection that is unaffected by high temperatures, high mechanical stress and high tensile forces. Use for full, demand or empty detection on all bulk solids media.

Fermentation applications



Ensure consistent product quality in fermentation processes with dense foam by using Rosemount pressure transmitters and seals - available with required fill fluids and process connections.

Emerson's portfolio of industry-leading instrumentation provides process insight into hygienic applications.



For more information visit: Emerson.com/Rosemount-Level

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