

Compact and efficient

Toroidal conductivity system Smartec CLD18 – designed for the beverage industry

Ideally suited for CIP
and phase separation
applications:

- Unique, hygienic design (certified by 3-A and EHEDG) prevents contamination.
- Optional IO-Link enables fast and simple integration into existing plant infrastructures.
- Durable sensor material (PEEK) ensures long-term stability and reliable measurements.
- Fast response time minimizes product loss.
- Suitable for CIP (Cleaning in Place) and heavy washdown thanks to IP69 ingress protection.





Reliable conductivity measurement is critical in today's competitive environment where resource conservation, product loss reduction and Overall Equipment Effectiveness (OEE) are high priorities. The Smartec CLD18 ensures fast and reliable CIP and phase separation measurements to achieve these goals in a cost-effective way.

Long-term reliability

Smartec CLD18 is specifically designed for hygienic applications: The stainless steel housing with IP69 ingress protection and potted electronics ensure reliability in high washdown and vibration prone installations. The long-term proven toroidal PEEK sensor (material EN 1935/2004 certified) reduces the risk of unexpected downtime.

High measurement quality

Product loss reduction and CIP efficiency are ensured with a conductivity response time of $t_{95} < 2$ seconds and a repeatability of better than 0.5 %.

Easy to use

The CLD18 comes with a precalibrated "airset" making installation and set-up easy. Specific adaption is conveniently done through the menu-driven display or the measuring range switch. The compact design allows for installation in tight places.

Fast integration with IO-Link

The IO-Link option of Smartec CLD18 allows for simple and efficient integration into your plant infrastructure, by providing standardized function blocks.

Compliance with the latest IO-Link specification V1.1 and the Smart Sensor Profile make the system future-proof.

Typical applications

- Phase separation of product/water/ CIP mixtures in beverage industry
- Product identification in filler supply lines of bottling plants
- Control of CIP equipment, detergent concentration in make-up tanks and CIP return lines

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