Liquid Analysis

The smart system for automated measuring points

Automatic cleaning & calibration of pH and ORP sensors with Liquiline Control CDC90

Liquiline Control CDC90 automates two measuring points simultaneously

Better yield and quality:
Accurate, reproducible and constantly available measured values help you get the best out of your product.

Less maintenance effort:
Convenient remote access, automatic measuring point documentation and predictable maintenance planning to facilitate your work.

Improved safety at work:
Maintenance work in hazardous environments kept to a minimum.

Seamless system integration:
Easily integrated into your process control system thanks to certified communication standards.

Strong partner:
Measuring technology, consulting and worldwide support from a single source make the automation of your measuring points easy and future-proof.

Endress+Hauser
People for Process Automation

With Liquiline Control CDC90, we offer you a smart system that measures pH and ORP, and cleans and calibrates the connected electrodes fully automatically. As the sensors do not need to be removed, your process continues to run without interruption. This reduces your maintenance work significantly, particularly if your process requires frequent sensor cleaning and calibration. Furthermore, automated measuring points minimize manual maintenance activities in hazardous and difficult-to-access areas.

As soon as contamination is detected on a sensor or a pre-set maintenance interval is reached, the cleaning cycle begins. The sensor is first moved pneumatically into the assembly. There, it is thoroughly cleaned using water and cleaning agents and, if necessary, calibrated using pH buffers. Then, the sensor is moved back into the measuring position. A measuring point that is automated in this way guarantees reliable, accurate and constantly available measurements, even under the toughest process conditions (high temperature, aggressive medium, etc.).

Liquiline Control CDC90 cleans, validates, calibrates and adjusts pH and ORP electrodes fully automatically.

1 Transmitter with industry PC and touch display

2 Pneumatic control unit

3 Double-membrane pumps

4 Cleaner and buffer canisters

When do I use Liquiline Control CDC90?

- My process requires accurate, reproducible measured values that are available 24/7.
- My sensor needs to be cleaned and calibrated very frequently.
- My measuring point is difficult to access or located in a hazardous environment.
- My sensor should only measure at certain intervals and should always be ready for use in between.
- My measuring point cannot be properly serviced manually.

Better product yield and product quality

- Optimized cleaning and calibration cycles ensure precise, constantly available measured values that allow you to operate your process efficiently.
- You have complete control over your measuring point at all times – even remotely – via the process control system or any mobile terminal of your choice, such as a tablet or smartphone.
- Easy-to-program cleaning and calibration sequences via touch display and web server.
- Liquiline Control CDC90 can control two measuring points at once or operate one measurement redundantly.

Less maintenance effort

- Permanent monitoring of consumption and wear for predictive event reporting allows you to schedule maintenance operations.
- Regular maintenance is limited to the scheduled replacement of sensors, buffers and cleaning solution.
- Automatic measuring point documentation makes your work easier and renders the process more transparent.

Improved safety at work

- Reduction in plant personnel visits to potentially hazardous production sites.
- The condition of difficult-to-access measuring points can be checked and controlled remotely.

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