

Compliant Chlorine Monitoring

Meet global regulatory requirements with DPD analyzer module CA75 for reliable disinfection monitoring.



DPD analyzer module CA75

Ensure reliable chlorine monitoring with the DPD analyzer module CA75. Based on the officially accepted DPD method, it delivers precise measurements of free or total chlorine for regulatory compliance and confident disinfection control. Easy integration and low maintenance help reduce effort and operating costs.

- Whether you need to optimize your process or to comply with regulatory standards - the DPD analyzer module CA75 is your perfect choice for monitoring chlorine.
- Just connect it like a fix cable sensor to a Liquiline CM44x transmitter and benefit from the flexibility of the Liquiline platform.
- To save space and money, you may easily add additional sensors (e.g. pH, turbidity) to CM44x.



DPD analyzer module CA75 and
Liquiline CM442 transmitter

Benefits at a glance

Designed for reliable chlorine monitoring and regulatory compliance, the DPD analyzer module CA75 delivers precise measurements of free or total chlorine based on the officially accepted DPD method. Accurate measurement results ensure effective disinfection, prevent overdosing and support consistently high water quality while contributing to overall cost savings and sustainable operation.

Seamless integration
via fieldbus protocols such as Modbus RTU, PROFIBUS DP, EtherNet/IP, and more.



Meets regulatory requirements worldwide
thanks to the officially accepted DPD method.



Low maintenance thanks to factory calibration:
No regular calibration required and optimized OPEX through adjustable measuring intervals.



Easy commissioning:
Connect the DPD analyzer module to a Liquiline CM44x transmitter like a plug-and-play sensor.



Reagent levels at a glance:
Transparent door for quick visual check.



Save space and costs:
Expand your measuring point with additional Memosens sensors (e.g., for pH or turbidity measurement).



Industries & Applications

Reliable chlorine monitoring is essential wherever water is disinfected. Whether in drinking water treatment, water reuse or wastewater treatment: The DPD analyzer module CA75 is the ideal solution for reliable chlorine monitoring, regulatory compliance and efficient disinfection control.



Drinking Water Abstraction

Drinking water originates from rivers, lakes, reservoirs, groundwater and wells. Surface water sources are increasingly affected by seasonal changes, extreme weather events and environmental contamination risks. Monitoring chlorine at critical abstraction and storage locations helps utilities verify that microbiological protection measures remain effective from the very beginning of the water cycle.

Continuous online chlorine measurement supports compliance with drinking water regulations, provides early warning of water quality changes and improves confidence in raw water management. By delivering reliable measurements based on the internationally accepted DPD method, the CA75 DPD analyzer module helps operators maintain full visibility of the disinfection status before water enters the treatment process.



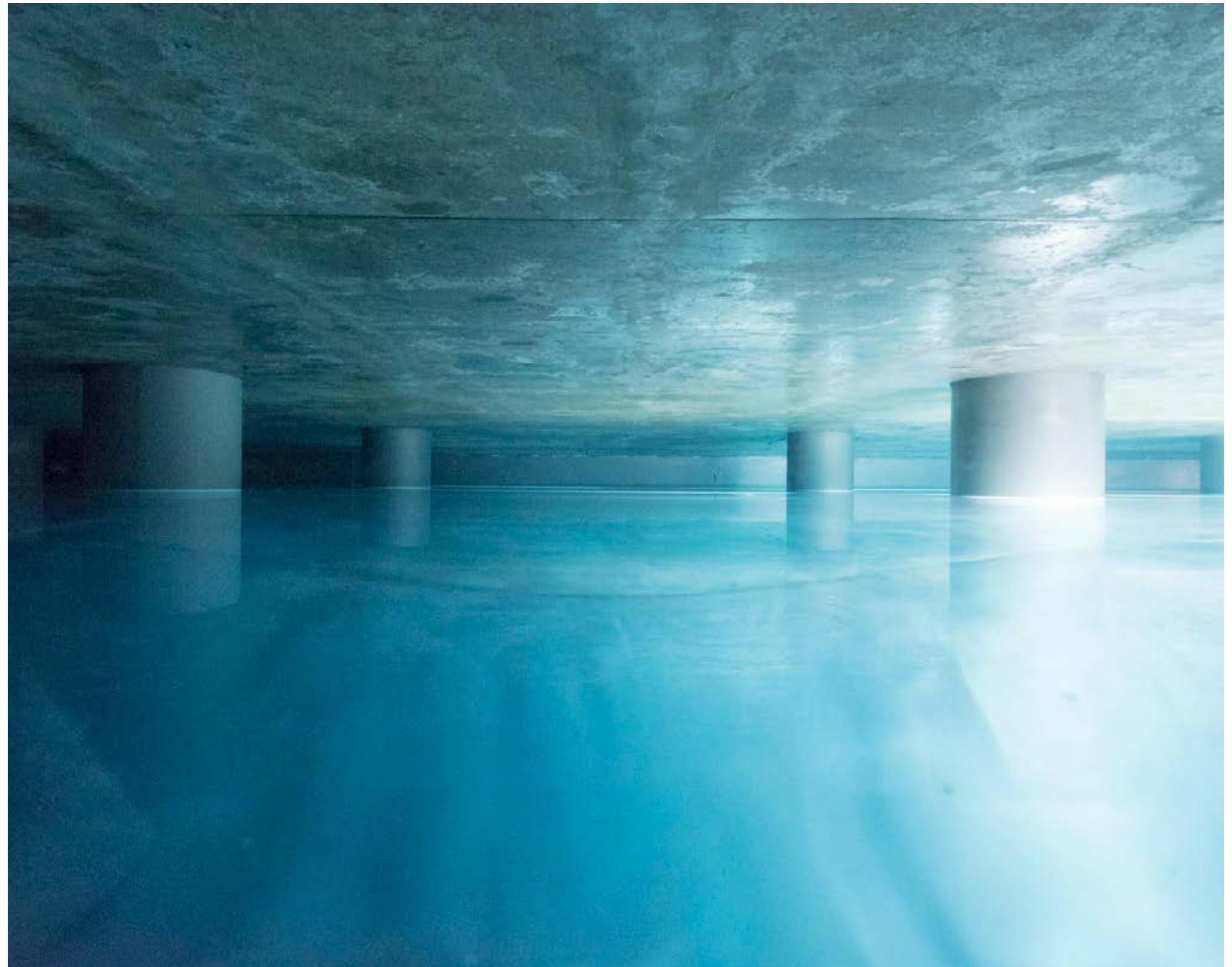
Drinking Water Treatment

Disinfection is one of the most critical steps in drinking water production. Whether chlorine is applied after filtration, before storage, or prior to distribution, operators need reliable information to verify treatment efficiency and maintain regulatory compliance.

Continuous chlorine monitoring helps optimize chemical dosing, reduce operating costs

and ensure consistent disinfection performance while avoiding under- or overdosing.

The CA75 DPD analyzer module provides audit-ready chlorine measurements using the official DPD reference method, enabling operators to document treatment performance and demonstrate compliance with confidence.



Drinking Water Distribution

Once water leaves the treatment plant, maintaining an adequate residual chlorine concentration becomes essential to protect consumers and prevent microbiological regrowth. Long transmission pipelines, storage reservoirs and secondary distribution systems can all influence disinfectant residual levels.

Continuous monitoring at strategic locations throughout the network provides operators

with real-time visibility of disinfection performance and supports compliance reporting.

By combining online DPD chlorine analysis the CA75 DPD analyzer module with digital connectivity and remote monitoring solutions, utilities can detect deviations earlier, react faster and ensure safe drinking water reaches every consumer.



Water Reuse

As water scarcity drives the adoption of reuse programs worldwide, reliable disinfection monitoring becomes a key requirement. Reclaimed water must consistently meet quality standards before being used for irrigation, industrial applications or indirect potable reuse.

Continuous chlorine monitoring verifies disinfection effectiveness, supports

regulatory compliance and increases confidence in water reuse programs.

The CA75 DPD analyzer module enables operators to maintain stable chlorine residuals and document water quality performance with laboratory-comparable DPD measurements.



AI-generated picture

Wastewater Disinfection

Wastewater disinfection plays an increasingly important role in environmental protection and water reuse. Chlorination remains a preferred treatment method whenever residual disinfection is required to guarantee pathogen reduction beyond the dosing point.

Continuous monitoring of free or total chlorine helps operators optimize chemical

consumption, prevent overdosing and demonstrate compliance with discharge permits.

The CA75 DPD analyzer module provides reliable online measurements to ensure effective disinfection while minimizing environmental impact and supporting transparent regulatory reporting.



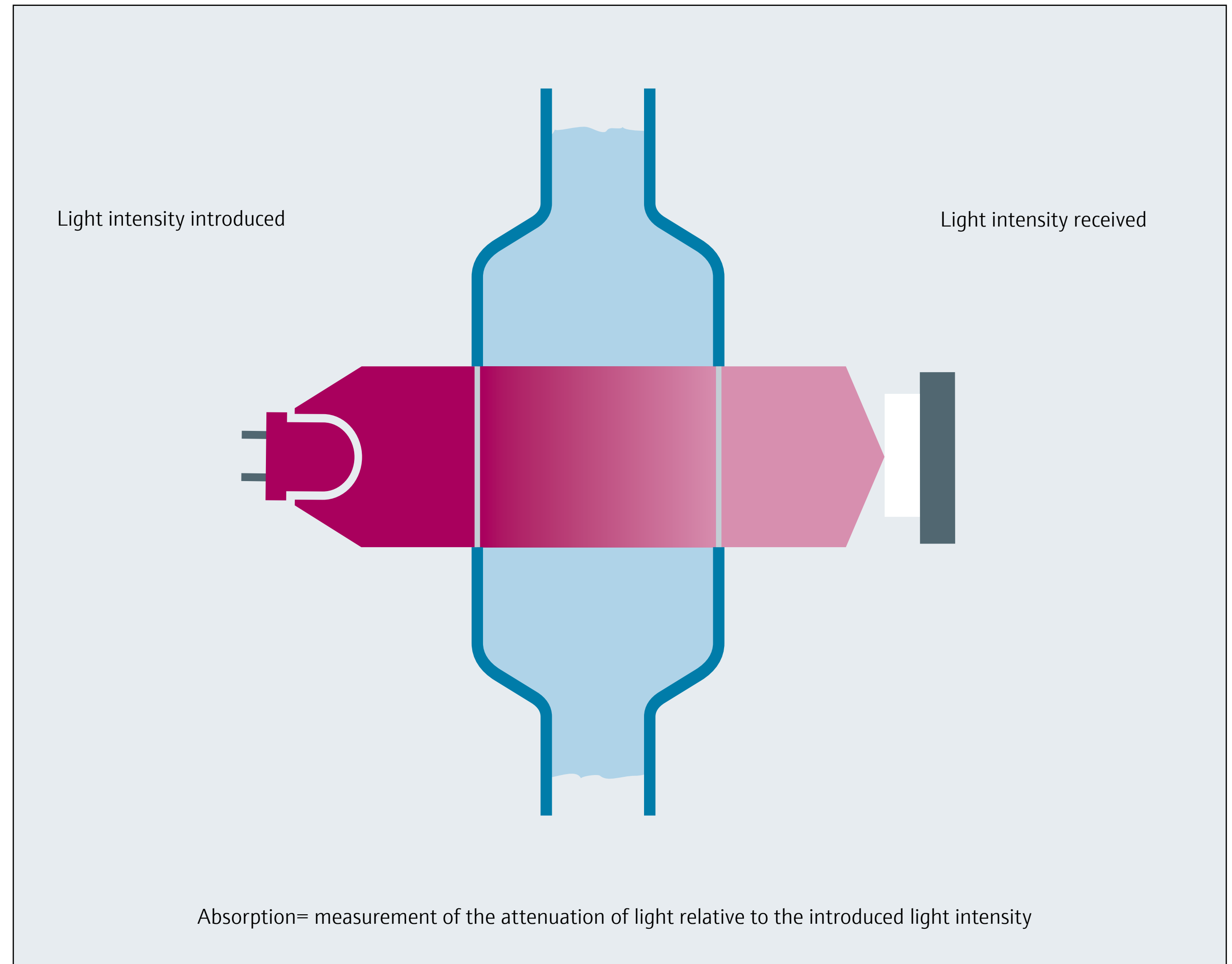
Colorimetric measuring principle

Precise analysis and highest resolution

One or more reagents are added to the water sample to “dye” the sample to be analyzed. Afterwards, the aqueous sample is measured by photometric means. The intensity of the specific absorption signal is proportional to the concentration of the dyed substance in the sample. A reference measurement (sample without chemicals) is taken before every measurement to be able to compensate for any interference caused by inherent color, turbidity or contamination.

The actual concentration of the substance is ascertained using this information.

By specifically selecting the dye reagents, many different parameters can be measured very accurately, ranging from water hardness and silicate to phosphate. Most standardized procedures for water and wastewater inspection are based on photometry and colorimetry. In contrast to titrimetry, a much higher resolution can be achieved by photometry.



Portfolio overview

Different chlorine applications require different chlorine measuring devices. With our broad portfolio, we can find a matching solution whatever your application is.

Memosens CCS51E

Digital sensor for free chlorine



Memosens CCS53E

Digital sensor for total chlorine



Choose between amperometric and colorimetric measuring principle – depending on your needs.

DPD analyzer module CA75

Colorimetric measuring device for total chlorine



Amperometric

Advantages

- Reagent free
- Continuous reading and faster response time for constant monitoring -> process control

Disadvantages

- Regular calibration against accepted methods necessary

Colorimetric

Advantages

- Same common reference method for lab and field
- Absolute method, accepted by authorities worldwide

Disadvantages

- Requires regular renewal of reagents

Technical data

DPD analyzer module CA75 supports you in monitoring the total chlorine in water with a globally standardized colorimetric method. Get to know the specifications and ideally equip your process.



Measuring range / LOD	0...10 mg/l CL ₂ (free + total); LOD: 0.018 mg/l
Measuring interval	2.5 – 60 minutes, adjustable
Measurement error	Accuracy: ±5% or ±0.04 mg/L from 0-5 mg/L; ±10% from 5-10 mg/L
Temperature	5...40 °C
Pressure	0.1 ...0.3 bar to the analyzer; 0.3-5.2 bar, to Y-strainer
Sample flow rate	60...200 ml/min (3.6...12 l/h)
Power supply	Power supply via Liquiline transmitter
Transmitter*	CM44x with all its Liquiline platform benefits like Memosens connection and communication protocols
Calibration interval	Factory calibrated: no regular recalibration required
Maintenance interval	0.5 l reagent in 30 days @ 2.5 minutes measuring interval (shelf life after mixing: 4 months)
Approvals	US EPA 40 CFR 141.74, US EPA 40 CFR 136.3, US EPA 334.0, ISO 7393-2 and 4500-CL-G

*to be ordered separately

CA75 DPD analyzer module

Compliant and reliable measurement of free and total chlorine

DPD analyzer module CA75 enables operators to fulfil regulatory requirements by using the worldwide officially accepted colorimetric DPD method for their chlorine analysis. The analyzer module supports ensuring the efficiency of disinfection, optimizes the dosage of disinfectants or ensures the absence of disinfectants thanks to reliable free and total chlorine analysis.

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