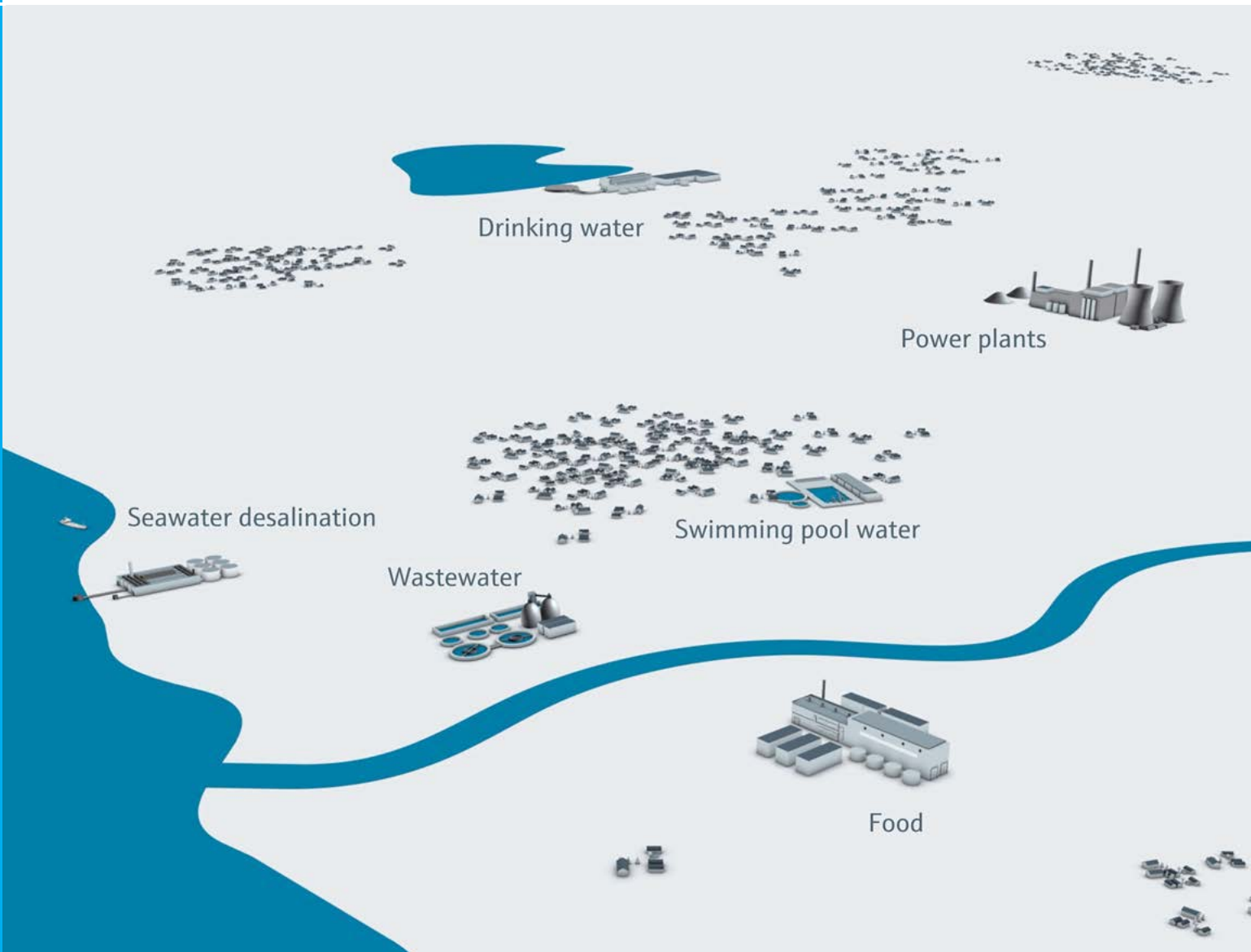



# Disinfection applications

## Measuring ranges and suitable sensors




# Disinfection applications


Disinfectant measurement is essential for safe water disinfection in many applications such as legally required disinfection of wastewater, disinfection of drinking water, seawater desalination, in power plants, disinfection of packaged food or cans and multiple-use bottles, and in swimming pool water. The tables below give an overview on the individual applications, measuring ranges and suitable sensors to be used.



Point of application		Measuring range	Sensor
Outlet	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Chlorine dioxide	Trace: 0 to 5 mg/l	CCS50E-AA11AD*
Network protection	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Chlorine dioxide	Trace: 0 to 5 mg/l	CCS50E-AA11AD*
Oxidation	Ozone	0 to 2 mg/l	CCS58E-AA11AC*



Point of application		Measuring range	Sensor
Inlet/outlet	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Free bromine	Trace: 0 to 5 mg/l	CCS55E-AA31AD*
	Ozone	0 to 2 mg/l	CCS58E-AA11AC*
Hot tub	Free chlorine	Standard: 0 to 20 mg/l	CCS51E-AA11BF*
	Free bromine	Standard: 0 to 20 mg/l	CCS55E-AA31BF*
	Ozone	0 to 2 mg/l	CCS58E-AA11AC*



Point of application		Measuring range	Sensor
Bottle cleaning	Free chlorine	Trace/Standard/High: 0 to 200 mg/l	CCS51E-AA11***
	Chlorine dioxide	Trace/Standard/High: 0 to 200 mg/l	CCS50E-AA11***
	Ozone	0 to 2 mg/l	CCS58E-AA11AC*
Food washing	Free chlorine	Trace/Standard/High: 0 to 200 mg/l	CCS51E-AA11***
	Chlorine dioxide	Trace/Standard/High: 0 to 200 mg/l	CCS50E-AA11***
Process water	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Chlorine dioxide	Trace: 0 to 5 mg/l	CCS50E-AA11AD*
Equipment cleaning	Free chlorine	High: 0 to 200 mg/l	CCS51E-AA11CJ*
	Chlorine dioxide	High: 0 to 200 mg/l	CCS50E-AA11CJ*
Food transport with water	Free chlorine	High: 0 to 200 mg/l	CCS51E-AA11CJ*
	Chlorine dioxide	High: 0 to 200 mg/l	CCS50E-AA11CJ*
Fish farming	Free bromine	Trace/Standard/High: 0 to 200 mg/l	CCS55E-AA31***

## Wastewater



Point of application		Measuring range	Sensor
Discharge water	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Total chlorine	0.1 to 10 mg/l	CCS120D-AA21AE with immersion assembly
Effluent	Ozone	0 to 2 mg/l	CCS58E-AA21AC*
Industrial wastewater	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Total chlorine	0.1 to 10 mg/l	CCS120D-AA21AE

## plants



Point of application		Measuring range	Sensor
Hygienic packaging	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Chlorine dioxide	Trace: 0 to 5 mg/l	CCS50E-AA11AD*
Equipment cleaning	Free chlorine	High: 0 to 200 mg/l	CCS51E-AA11CJ*
	Chlorine dioxide	High: 0 to 200 mg/l	CCS50E-AA11CJ*
Process water	Free chlorine	Trace: 0 to 5 mg/l	CCS51E-AA11AD*
	Chlorine dioxide	Trace: 0 to 5 mg/l	CCS50E-AA11AD*
	Free bromine	Standard: 0 to 20 mg/l	CCS55E-AA31BF*
	Ozone	0 to 2 mg/l	CCS58E-AA11AC*
Cooling water	Chlorine dioxide	High: 0 to 200 mg/l	CCS51E-AA11CJ*
	Free bromine	Standard: 0 to 20 mg/l	CCS55E-AA31BF*
	Ozone	0 to 2 mg/l	CCS58E-AA21AC*

## Seawater



Point of application		Measuring range	Sensor
Desalination	Free bromine	Standard: 0 to 20 mg/l	CCS55E-AA31BF*

[www.addresses.endress.com](http://www.addresses.endress.com)

---

P.001405C/07/EN/02.23