LENNTECH
WATER TREATMENT SOLUTIONS

Digital total chlorine sensor Memosens CCS53E

Memosens disinfection sensor for wastewater and utilities in all industries

More information and current pricing:
www.nl.endress.com/CCS53E

Benefits:

- The sensor is not deactivated after periods of time when no chlorine is present, but reacts right away. This continuous measurement facilitates quick responses to process changes and ensures compliance with regulations.
- The low-maintenance, amperometric sensor reduces the cost of ownership of the measuring point, particularly compared to colorimetric measuring systems.
- High process up-time: pre-calibrating the sensor and swaping it with plug & play enables a fast sensor exchange. Plus, the polarization time is faster with Memosens 2.0.
- Easy combination with other relevant parameters of liquid analysis such as pH and ORP by easily connecting the Liquiline multiparameter transmitter.
- Wide measurement range for different applications: From zero to trace measurement up to total chlorine concentrations of 20 mg/l.

Specs at a glance

- **Measuring range** 0 to 5 mg/l total chlorine or 0 to 20 mg/l total chlorine
- **Process temperature** 0 to 55 °C , non-freezing (32 to 130 °F)
- **Process pressure** 1 bar relative (14,5 psi relativ) Max. 2 bar (max. 29 psi)
- **Measuring method** Total chlorine consists of free chlorine (HOCl, OCl-) and bound chlorine (chloramines) All components are reduced at the working electrode Almost pH independent

Field of application: Total chlorine is the mixture of free and bound chlorine components and thus a good indicator of residual disinfectants

in discharge and process water. Memosens CCS53E provides continuous measurements of total chlorine, even after periods when no chlorine is present. This enables to measure "zero" chlorine, the absence of chlorine. Thanks to Memosens 2.0 technology, the sensor combines maximum process and data integrity with simple operation. This is the perfect basis for predictive maintenance.

Features and specifications

Disinfection

Measuring principle
Total chlorine

Application
Wastewater treatment plants, disinfection monitoring and control in wastewater outlet, reuse of outlet water
utilities of all industries
drinkingwater to regulate disinfection
all disinfection measuring points
swimming pool with efficient disinfection
Food and Beverage, cleaning water or zero chlorine applications for reverse osmosis,

Characteristic
Amperometric measurement of total chlorine

Measuring range
0 to 5 mg/l total chlorine or
0 to 20 mg/l total chlorine

Measuring method
Total chlorine consists of free chlorine (HOCl, OCl-) and bound chlorine (chloramines)
All components are reduced at the working electrode
Almost pH independent

Design
Closed amperometric 2-electrode measuring cell with PET membrane

Disinfection

Material

Sensor shaft: POM
Membrane: PET/PVDF
Mebrane cap: PVDF

Dimension

Diameter: 25 mm (0.98 in)
Length: 161 mm (6.34 in)

Process temperature

0 to 55 °C , non-freezing
(32 to 130 °F)

Process pressure

1 bar relative (14,5 psi relativ)
Max. 2 bar (max. 29 psi)

Temperature sensor

10k NTC integrated (Memosens)

Connection

Inductive, digital connection head with Memosens 2.0

LENNTECH
Water Treatment Solutions
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289