



9185 sc Ozone amperometric analyser

Product #: LXV433.99.00001

ZAR Price: Contact Hach

Ships within 3-5 weeks

Smart amperometric Ozone Analyser: 9185 sc

The 9185 sc Ozone Sensor is an online, single-channel industrial sensor that measures ozone in drinking water treatment plants, distribution networks, and other applications that require monitoring of ozone at the ppb and ppm levels. This instrument uses an amperometric method to measure ozone concentration. A membrane allows the selective diffusion of ozone molecules to the amperometric sensor. The measurement is compensated for pH and temperature.

Few Interferences from Oxidants or pH over a Wide Measurement Range

Bromine, chloramines, chlorine, chlorine dioxide, hydrogen peroxide, and pH do not interfere with ozone measurements using the Hach 9185 sc Amperometric Ozone Sensor, which can measure from 0 - 2 mg/L ozone.

Ideal for Low-Conductivity Samples

The 9185 sc ozone system has a low minimum detection limit of 0.005 mg/L ozone. Because the amperometric cell is separated from the sample by the membrane and is immersed into an electrolytic medium, the 9185 sc ozone sensor is suitable for use in water with low conductivity.

Reliable Amperometric Measurements

The sensor used in the 9185 sc system is a two-electrode amperometric sensor (gold cathode and silver anode) with a membrane selective to ozone. Membranes are pre-mounted on retaining caps to simplify and reduce maintenance time.

Easy Setup and Maintenance

The all-inclusive 9185 sc ozone system comes preassembled on a panel. The membrane system of the sensor means there are no chemicals used for measurement.

Compatible with Hach's "Plug and Play" Digital Controllers

The 9185 sc Ozone Sensor is designed to be used with all Hach digital SC controllers. Set up is fast and easy, and the system is compatible with the full line of Hach digital sensors.

Specifications

Accuracy:	3 % or ± 10 ppb O ₃ , whichever is greater
Calibration Interval:	2 months
Calibration Method:	Zero calibration: electrically or with ozone-free water Calibration: comparison of lab method with process sample
Enclosure rating:	IP66 / NEMA 4X
Flow:	14 L/h (200 - 250 mL/min) auto-regulated by flow through cell
Height:	270 mm

Interferences:	No interference from bromine, chloramines, chlorine, chlorine dioxide, or hydrogen peroxide.
Lower Limit of Detection (LOD):	0.005 mg/L O ₃
Maintenance Interval:	6 months for membrane and electrolyte (measurement cell)
Measuring Interval:	Continuous
Measuring Principle:	Amperometric/Membrane (electrode, membrane, electrolyte)
Measuring range:	0.005 - 2 mg/L O ₃
Mounting:	Flat, vertical surface (panel, stand, etc.)
Operating temperature range:	0 - 45 °C
Parameter:	Ozone
Pressure Range:	0.1 - 2 bar in flow cell
Relative Humidity:	0 - 90 % non-condensing
Response time:	90 % in less than 90 seconds
Sample Input:	0.25" outer diameter
Sample Output:	0.5" inner diameter
Sample Temperature:	2 - 45 °C
Standard deviation:	1.0 %
Storage conditions:	-20 - 60 °C
Temperature Compensation:	Automatic over sample temperature range
Warranty:	12 months
Weight:	6.5 kg
What's included?:	Hach 9185 sc Ozone sensor panel, 4 spare membranes, and manual.
Width:	250 mm

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Hach 9185 sc Ozone sensor panel, 4 spare membranes, and manual.

Required Accessories

- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)