

Chlorine Dioxide Amperometric Sensors



With the exception of the 4-20mA sensors, where the length is 220mm, the sensors have a length of 175mm and a diameter of 25mm, with plug adaptor connection.

They are designed to fit into the available flow cells.

The low current produced by the sensors is electronically amplified in the measurement cell.

No zero point calibration is necessary, and measurements can be taken in pressure up to 1 BAR.

The sensors are temperature compensated, and will operate in the range 0 to 45 degrees C (for the 8 Series, 0-55).

The water has to be flowing to obtain a reading, which is why flow cells are recommended.

Changes to the minimum flow rate will only slightly affect the measurement signal.

Surfactants should not be present in the water being measured (does not apply to the 8 Series probes).

For the dual electrode system, the measurement cell is made of gold, and the counter and reference electrodes of silver with silver halogenid coating. A bias voltage (polarisation) is applied between the two electrodes.

For the potentiostatic 3 electrode system, the measurement electrode is made of gold, the reference electrode is made of silver with a silver halogenid coating, and the counter electrode of stainless steel.



2 Pole Sensor



4 Pole Sensor

- Amperometric Dual Electrode System with Replacement Membranes.
- Seven Series for measurements when surfactants present.
- Gold Cathode, Silver/Silver Halogenid Anode.
- One and four series temperature range 45°C.
- Seven series temperature range 55°C.

SPECIFICATION

4 Pole Sensors

Range:	MSCD5N	: 0.00 – 20.00 ppm
	MSCD5H	: 0.000 – 2.00 ppm
	MSCD8N	: 0.00 – 20.00 ppm
	MSCD8H	: 0.000 – 2.00 ppm
Resolution	MSCD5N	: 0.01 ppm
	MSCD5H	: 0.001 ppm
	MSCD8N	: 0.01 ppm
	MSCD8H	: 0.001 ppm
pH Range	MSCD5N	: 1 – 14 pH
	MSCD5H	: 1 – 14 pH
	MSCD8N	: 2 – 11 pH
	MSCD8H	: 2 – 11 pH

2 Pole Sensors for 4-20mA Instruments

Range:	MSCD5	: 0.0 – 0.5 ppm
	MSCD5	: 0.00 – 2.00 ppm
	MSCD5	: 0.0 – 10.0 ppm
	MSCD8	: 0.0 – 0.5 ppm
	MSCD8	: 0.00 – 2.00 ppm
	MSCD8	: 0.00 – 5.00
	MSCD8	: 0.0 – 10.0 ppm
Resolution	MSCD5	: 0.01 ppm
	MSCD5	: 0.01 ppm
	MSCD5	: 0.1 ppm
	MSCD8	: 0.01 ppm
	MSCD8	: 0.01 ppm
	MSCD8	: 0.01 ppm
	MSCD8	: 0.1 ppm
pH Range	: 2 – 11 pH	

