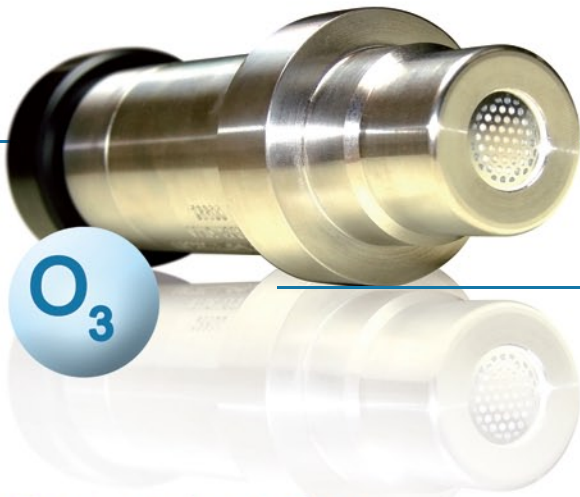


# Ozone Sensors

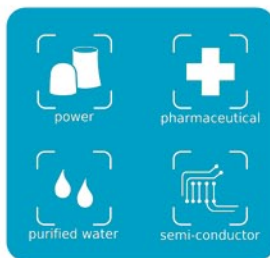
series 613

For liquid and gas phase measurements



## Fast and precise Trace ozone measurements

The MecSens series 613 ozone sensors are versatile and suitable for the most demanding of ozone measurements under the harshest conditions. Sensors measure trace to saturation levels either in-line or at-line and are suitable for both **dissolved and gaseous applications**.



## Commercial Benefits

- Trace Level precision
- Operational cost savings
- Reliability of measurements
- Reduced TCO
- Dissolved and gaseous applications

## Technical Benefits

- Trace level accuracy

Very low detection limit of 5 ppb dissolved or 0 mbar (v/v) gaseous.

Display units from limit of 0 ppm to 400 ppm, dissolved or 0 to 400 mbar gaseous.

- Proven Technology

All stainless steel sensor rated IP68 / Nema 6P and 100 bars.

- Low maintenance / Ease of maintenance

Interchangeable anode electrode reduces repair costs and maintenance procedures.

The membrane surface in contact with the sample is minimal, thus reducing the maintenance frequency.

- Ease of Calibration (1 point / air)

Calibration parameters are stored in the Eeprom sensor so that it can be connected to any MecSens instrument without need for re-calibration.

- Hygienic certification for critical industrial applications



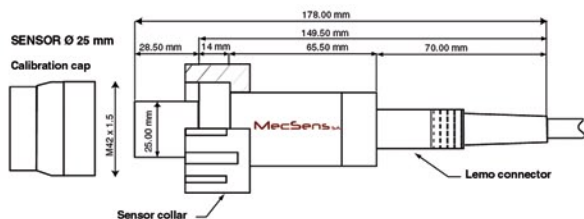
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## A breakthrough in ozone measurements

From production to quality assurance, laboratory and maintenance, users will find appropriate applications for this unique hygienic sensor which provides fast precise and accurate measurements. Integrated with the in-line instrument, it has the additional benefit of very low maintenance and ownership costs. The customer can measure either dissolved or gaseous ozone concentrations and the medium temperature. This smart sensor memories the calibration parameters simplifying the calibration procedure on-site.



## Sensor Technical Specification

- The polarographic membrane covered ozone sensor has an absolute zero and low drift.
- The sensor uses various membranes to optimize the performance for the application.
- The mechanical construction and design ensure unrivalled performance and extended service intervals.

The hat-shaped protection cap, the inter-changeable anode and a temperature sensor integrated into the cathode enhance the sensor operation and extend the service life whilst reducing the maintenance time and repair costs.

Membrane model number	82956	82952
Measuring range DO3	0 - 50 ppm	20ppb - 400ppm
Measuring range PO3	0 – 100 mbar	0 – 400 mbar
Flow rate Liquids	350ml/min	100 ml/min
Flow rate Linear flow	30cm/sec	10cm/sec
Flow rate Gaseous	0.01 - 3l/min	0.01 - 3l/min
Response time (90% at 25%)	30 sec	6 min
Accuracy	1% of the measured value or lowest value whichever is greater.	
Temperature Compensation	-5°C to + 45°C / 23°F to 113°F	
Temperature range	CIP or SIP resistant up to 120°C/248°F	
Pressure rating	100 bars or 1450 Psi	
Weight	0.6 kg	
Enclosure protection	IP65	
Material in contact with sample	ANSI 316L, PFA oder Tefzel	
Sensor model number	Model 61300: Sensor Ø25 mm Model 61301: Sensor Ø28 mm	
Sensor cable	3m standard length / optional extension up to 1000 m	