PRODUCT INFORMATION

PROCESS ANALYSIS OZONE SENSOR ORBISPHERE C1100



True Zero measurement: ORBISPHERE C1100

- → True Zero drift free and accurate measurements brings peace of mind
- → Fast, easy, traceable and reliable calibration
- → Saving WFI (Water For Injection) costs with in-line mounting

Drift free and accurate measurements

With the unique ORBISPHERE platinum guard ring technology preventing false signals arising from the electrolyte, this sensor provides a true, drift free zero. Operators can be confident of measurements and alarm settings knowing the sensor is providing a 0.6 ppb detection level and ±0.4 ppb accuracy at a 5 ppb level.

The elimination of false alarms significantly reduces production line stoppages and waste.

The ORBISPHERE C1100 ozone sensor is designed to offer pharmaceutical operators peace of mind when measuring ozone in ultrapure water loops.

This sensor can measure ozone at the pre-UV and post-UV phases and at the end of the loop.

Fast, easy, traceable and reliable calibration

This ozone sensor has a unique air calibration feature that offers operators a quick and easy solution to calibrate with an accuracy of $\pm 5\%$ or $\pm 1\%$ against ozone known concentration. The sensor is delivered with a traceable validation certificate using a $\pm 0.5\%$ reference.

The ORBISPHERE C1100 is the only sensor in the market that provides this type of accuracy and certification!

Saving WFI costs with in-line mounting

The ORBISPHERE C1100 is uniquely designed for in-line performance eliminating the need to run costly WFI to drain. In comparison to other measurement systems, the C1100 saves more than 15 cubic meters of WFI per day.

Ordering information

C1100-S00

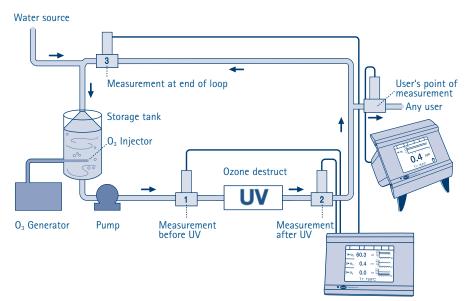
Electrochemical ozone sensor, Stainless Steel version, maximum pressure 40 bar.

C1100-T00

Electrochemical ozone sensor, Titanium version, maximum pressure 100 bar.

EN 10204 2.2 and 3.1 certificates are available upon request.

Typical ozonated water loop



Technical information

| | C1100 |
|---|---|
| Measuring range | 0 ppb - 50 ppm O ₃ |
| Accuracy | ±0.4 ppb or ±5%, whichever is the greater |
| Repeatability r ⁹⁵ (2 σ) | ± 0.4 ppb or $\pm 0.5\%$, whichever is the greater |
| Pressure rating | 40 bars / 100 bars |
| (Stainless steel / Titanium) | (580 psi / 1450 psi) |
| Limit of detection (3\sigma) | 0.6 ppb |
| Response time | 30 s |
| Working operating range | -5 to 45 °C (23 to 113 °F) |
| Maximum operating range | -5 to 100 °C (23 to 212 °F) |
| Membrane, material | 2956A-C, PFA |
| Recommended inflow | 350 ml/min |
| in flowchamber 32001 | |
| Recommended flow rate | 30 cm/sec |
| in the pipe | |
| Immersion protection | IP 68 |
| Weight | 300 g |

Note: Limit of quantification = 10σ . The recommended inflow stated for a sensor with a safety cap without a stainless grill. With a stainless the inflow needs to be 50% higher.

Subject to change without notice.

