

NEW

Dissolved oxygen concentration monitor series for semiconductor manufacturing

RCA Cleaning Process

Cu Plating Process

Pure Water Measurement



HD-960LR



HD-960L-M



HD-960

Ideal for measuring dissolved oxygen concentration in Wet Process from Front-end of Line to Back-end of Line. By adopting a chemical resistant sensor, it is possible to support a wide range of dissolved oxygen concentration measurements from facility to process usage.

The latest model of dissolved oxygen monitor **HD-960LR**

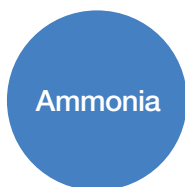


- **Features**
 - Dissolved oxygen concentration can be measured even with the chemical conditions below.
 - ☑ Ammonia concentration is 1% or lower, sample temperature is 25 °C ±2 °C
 - ☑ Organic solvent with boiling point higher than water
 - Able to measure dissolved oxygen concentrations of more types of chemicals used in semiconductor processes.

■ Comparison with previous models

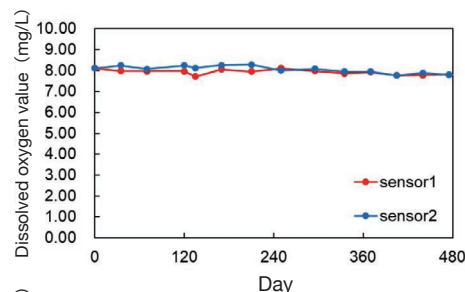
| | Latest model | Previous models | |
|-------------------------|--|--|--|
| | High flow rate and long life | High flow rate (Sample to circulate) | Low flow rate (Sample to drain) |
| Model | HD-960LR | HD-960L-M | HD-960 |
| Sensor unit dimensions | W170 (200) x H95 x D135 | W120 (150) x H95 x D108 | W87 (117) x H131 x D94 |
| Flow rate | 600 - 2000 mL/min (Sensor membrane: 25 μm) 400 - 2000 mL/min (Sensor membrane: 50 μm) | 200 - 2000 mL/min (Sensor membrane: 25 μm/50 μm) | 15 - 200 mL/min (Sensor membrane: 25 μm/50 μm) |
| Temperature | 20 - 60 °C | 20 - 60 °C | 10 - 45 °C |
| Pressure | 0 - 0.2 MPa | 0 - 0.2 MPa | 0 - 0.1 MPa |
| Response speed | 30 sec (90%) @400 mL/min | 30 sec (90%) @400 mL/min | 30 sec (90%) @200 mL/min |
| Sample | Ammonia concentration is 1% or lower, sample temperature is 25 °C ±2 °C Organic solvent with boiling point higher than water. | Pure water Low concentration HF (5700 ppm or less) | Pure water Low concentration HF (5700 ppm or less) |
| Equipment configuration | Converter: HD-960LR Sensor unit: DO-120 Bottle unit: DO-120-B Sensor: 5622 Connection cable: CK-05PS (5 m) Relay cable: CK-01DO (1 m) | Converter: HD-960L-M Sensor unit: DO-110 Sensor: 5611 Connection cable: CK-05PS (5 m) | Converter: HD-960L Sensor unit: DO-100 Sensor: 5600 Connection cable: CK-05PS (5 m) |

■ Measurement data (In-house reference data)



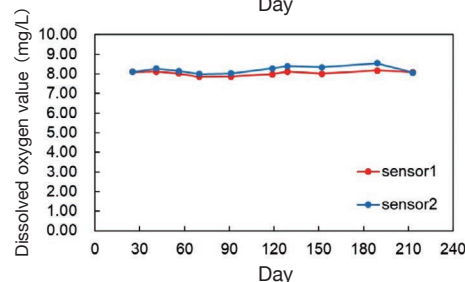
- Measurement condition** ▶ Sample: Ammonia (28%)
- ☑ Membrane: 25 μm
 - ☑ Temperature: Room temperature
 - ☑ Conduct regular sensitivity check by measuring atmospheric air

Measurement result ▶ Abnormal measurement tends to occur within 5 days of operation for the previous models. The latest model is able to achieve stable measurements for about 480 days.



- Measurement condition** ▶ Sample: Organic solvent
- ☑ Membrane: 50 μm
 - ☑ Temperature: 60 °C
 - ☑ Conduct regular sensitivity check by measuring atmospheric air

Measurement result ▶ Abnormal measurement tends to occur within 5 days of operation for the previous models. The latest model is able to achieve stable measurements for about 210 days.



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