ISO-14001
ISO-9001

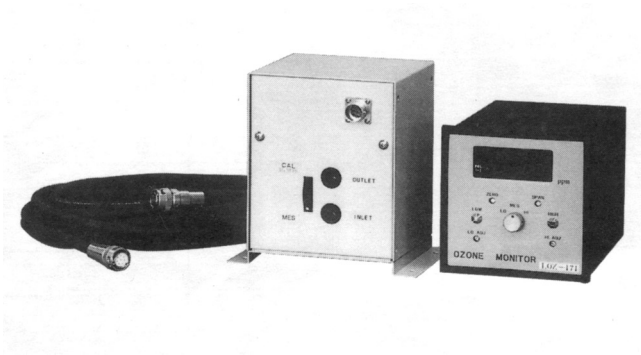
SPECIFICATION SHEET

TOA DKK

DISSOLVED OZONE MONITOR

Model: **LOZ-171**

The Model LOZ-171 monitors dissolved ozone concentration in ozone-added ultra pure water used in semiconductor manufacturing. This monitor has been designed to provide easy operation. Installation is simple and the unit requires minimum space.



FEATURES

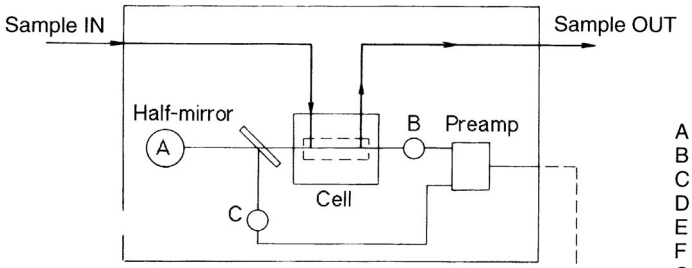
- **Compact and lightweight package:**
  Discrete design of sensor and transmitter. The transmitter is supplied in a DIN sized (96 x 96) panel mount enclosure.
- **Online type sensor unit:**
  Eliminates cumbersome sampling work. The meter shows the ozone concentration in real time by continuous measurement.
- **Easy operation:**
  Easy to handle with simple construction.
- **Economical solution:**
  Epoch making low price in comparison with conventional alternative.
- **Outputs:**
  4~20mA DC concentration signal and high/low concentration alarm contacts are provided as standard.

STANDARD SPECIFICATIONS

Product Name	:	Dissolved Ozone Monitor.
Model	:	LOZ-171.
Measurement Method	:	Ultraviolet absorptiometry.
Measurement Range	:	0~20ppm.
Display	:	3-digit LCD, 20.0ppm.
Resolution	:	0.1ppm.
Output Signal	:	4~20mA DC (isolated), load resistance 600Ω or less.
Zero Calibration	:	By adjusting trimmer on transmitter front panel during non-ozoniferous pure water flowing.
Span Calibration	:	1. With the known concentration of the sample. 2. Simplified calibration using an optical calibration switch.
Sample Conditions at Cell		
Flow rate	:	constant in 50~120mL/min. range.
Pressure	:	0.1Mpa (1.0kgf/cm²) or less.
Temperature	:	15~40°C.
Major Wetted Materials	:	PVDF (Poly-Vinylidene Di Fluoride), quartz glass.
Alarm Contacts	:	Alarm Setting; by the trimmer on transmitter front panel for high/low alarms. Adjustment sensitivity; 2%FS or less. Contacts; HIGH and LOW, 1a contact each.
Light Source Life	:	Approx. 10,000 hours.
Piping Connections	:	O.D. 6mm pipe (inlet & outlet).
Mounting		
Sensor	:	surface mounting with 4 no. M3 screws.
Transmitter	:	panel mounting (cut out 92.5 x 92.5mm).
Ambient Conditions		
Sensor	:	10~30°C, 90%RH or less.
Transmitter	:	0~40°C, 90%RH or less (no dewing).
Accessories	:	Cable between sensor and transmitter, 5m length shielded sheath O.D. 6.5mm (standard).
Power Requirements	:	100V AC ±10% 50/60Hz. (Other operating voltages available as options).
Power Consumption	:	Approx. 30VA.
Enclosure Materials		
Sensor	:	Aluminium
Transmitter	:	Plastics.
Weight		
Sensor	:	approx. 1.0kg.
Transmitter	:	approx. 1.2kg.
Performance		
Linearity	:	Within ± 2% FS.
Repeatability	:	Within ± 1% FS.
Zero Drift	:	Within ± 2% FS/month.
Span Drift	:	Within ± 2% FS/month.
Response Time	:	Within 10sec. for 90% response (at flow rate 100mL/min.).

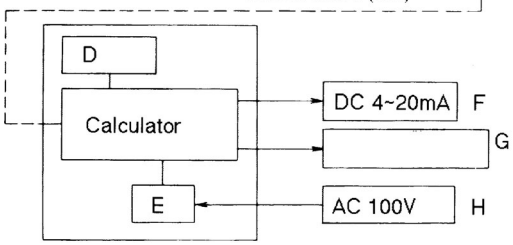
BLOCK DIAGRAM

Sensor



A : Light source, lamp
B : Measurement light photosensor
C : Reference light photosensor
D : Display
E : Power supply unit
F : Current output
G : Relay contact alarm outputs
(High and low limits; 1a each)
H : Power source

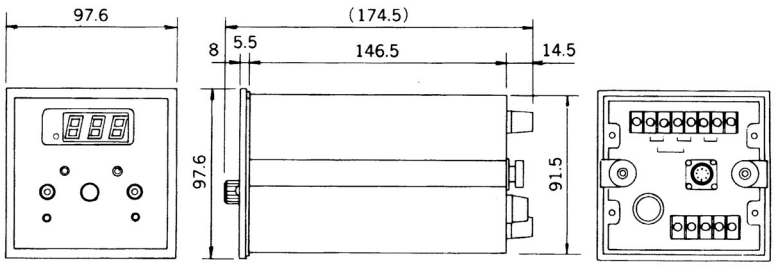
Transmitter



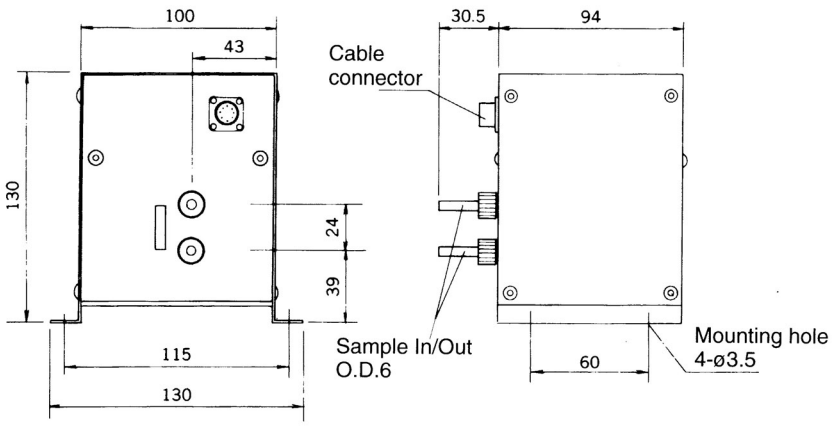
DIMENSIONS

Unit : mm

Transmitter



Sensor



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⚠ CAUTION Do not operate products before consulting instruction manual.