

Ozone Analyzer

model OA-781

Ozone is the causative agents such as the photo-chemical oxidant smog. OA-781 is an continuous analyzer that measures the ozone concentration in ambient air by a non dispersive ultraviolet absorption method (NDUV) complying with JIS B 7957.

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Reliability improves by adopting the ozone scrubber checker (optional).

Simple operation on a large color LCD touch panel offers a lot of information.

Easy to maintenance by adopting a fold type slide front panel.

Large capacity memory to save measured data for over a year.

USB memory for general-purpose is available to data extraction

Ethernet interface is available as standard equipment for digital telemetering

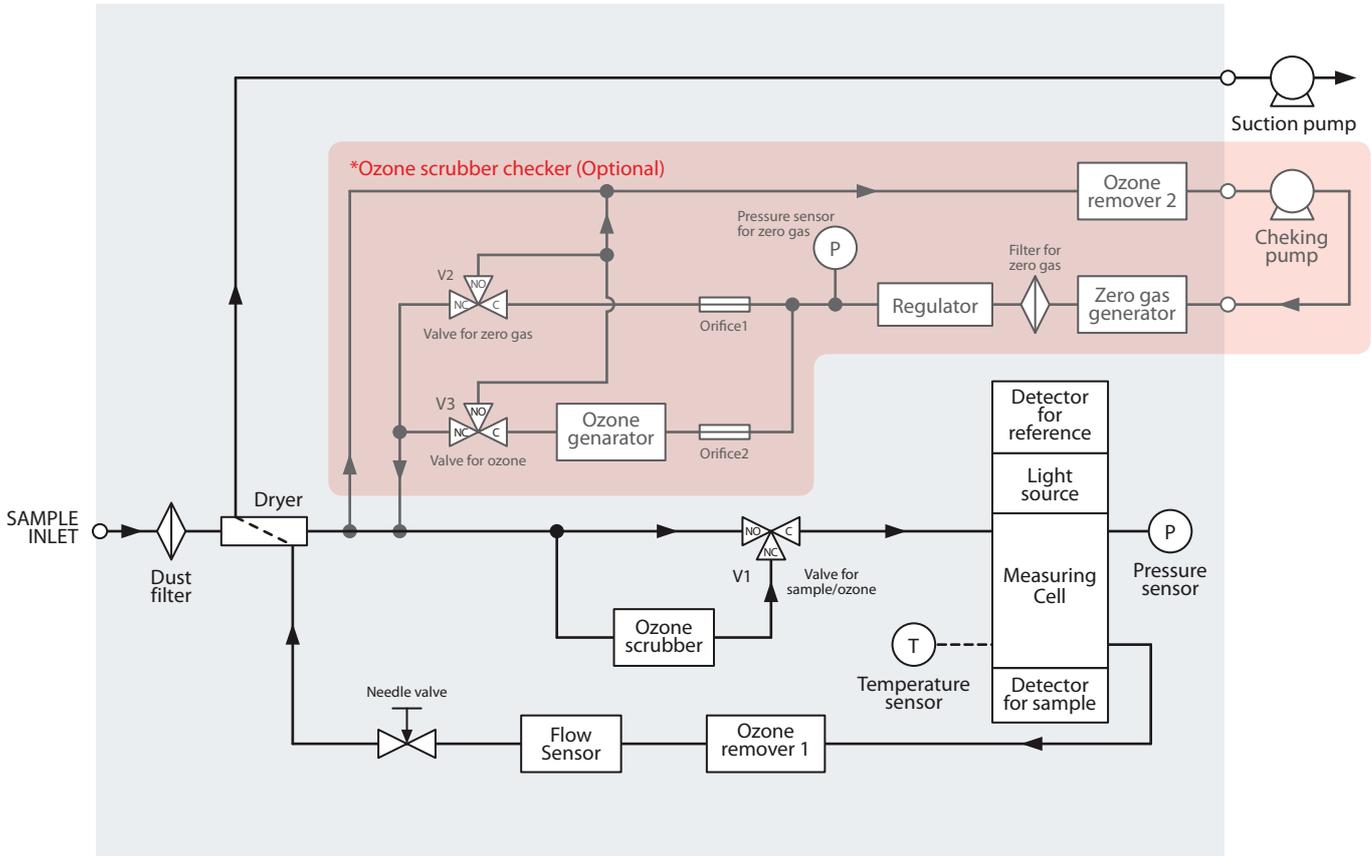
General Specifications

Measuring object	Ozone (O ₃) in ambient air	Interference	4 ppb or less (by Toluene 1 ppm) 4 ppb or less (by Humidity 80%RH, 25°C)
Measuring method	Non dispersive ultraviolet adsorption method (JIS B 7957)	Warming-up time	within 3 hour
Measuring range *	0 - 1 ppm	Permissible ambient temperature range	0 - 40°C
Analog output range *	0 - 0.1/ 0.2/ 0.5/ 1.0 ppm 4-ranges auto/manual switching *Starting range is selectable *Fixed range is also available	Sample flow rate	approx. 1L/min
Repeatability	±1% of span gas concentration	Dust filter	φ47mm PTFE filter
Zero drift	±1 ppb/ week	LCD display	Measuring data, Output range, performance and control information, Messages, Alert
Span drift	±2%/day, ±4%/ week of span gas conc.	Internal data memory	Measuring data (1min, 1h data), Operation history, Messages, Alert
Linearity	±4% for half number of span gas conc.	Digital IN/OUT	Ethernet, USB1.1, RS232C
Stability to voltage fluctuation	±1% /100±10V for span gas conc.	Output for serial recorder (optional) *	Measuring data (1min, 1h data), Operation history, Messages, Alert
Stability of reading for temperature change	Zero: within ±1ppb / 5°C Span: within ±2%/ 5°C of span gas conc.	Analog output for telemeter (optional) *	DC 0 - 1V : Continuous data, 1h mean value Contact signal : Output range, external reset, adjusting, power discontinuity, disconnecting, system failure, etc.
Degradation efficiency of ozone scrubber	99.5% or more	Power requirement	AC100V 50/ 60Hz approx. 200VA
Response time	2 minutes or less (T90)	Withstand voltage test	AC1000V 50/ 60Hz during 1 min.
Detection limit	1 ppb or less	Insulation resistance	more than 5 Megohm
Stability of sample flow	within ±5%/ 10 days		
			*For further information, please contact us.

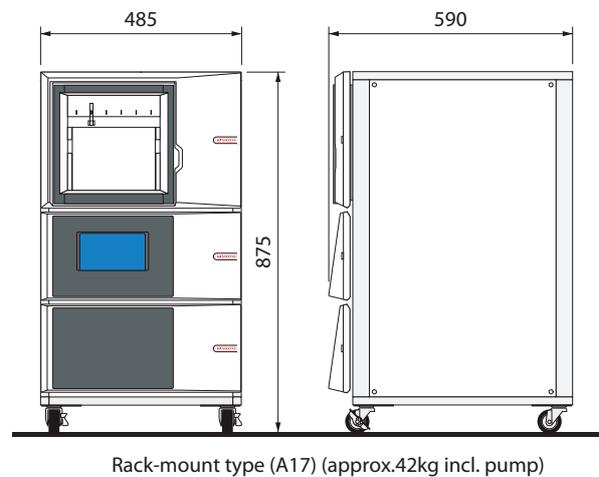
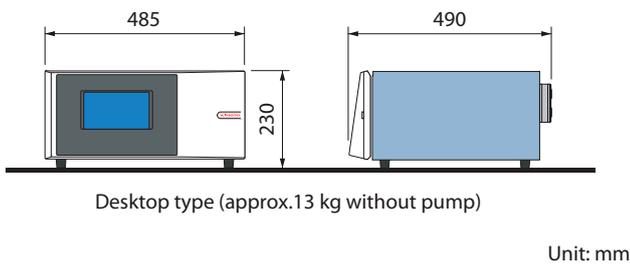
Optional

Rack mount	A17: H875mm rollaway rack A22: H1100mm rollaway rack	Analog I/O unit for a telemeter	TU07 : terminal block (Rear connection with rack mount)
Recorder	Serial recorder Chart width:180mm		

Flow Diagram



Dimensions



Product Code

OA-781-□□□□

T1	Desktop type
A1	A17 Rack
A2	A22 Rack
R	Serial Recorder
0	No use
T	Analog I/O unit for a Telemeter TU07
0	No use
S	Ozone scrubber checker
G	Zero gas generator
0	No use



CAUTION

*) Operation manual should be read before measuring.

*) To avoid fire, break down and electric shock, do not use this analyzer at the place where beside water, high moisture, dust or oily smoke.

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