

Portable oxygen analyzer EZY series



Feature

- *Weight saving from previous model*
EZY:4.3kg/TB-FI series:6.0kg
- *3 colors. -You can select color according to your application.)*
- *Stable measuring by smooth temperature control system*
- *Built-in multi filter protects detector from corrosive gas*

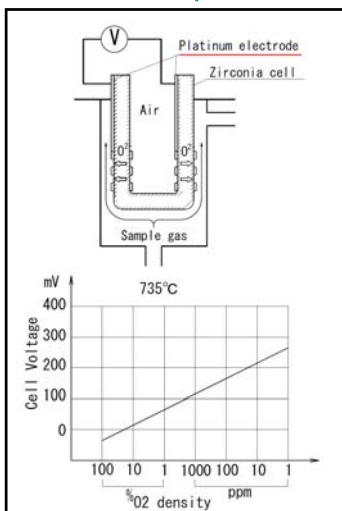
Application

- *Portable application*
- *Semiconductor application*
- *Reflow furnace*
- *Exhaust gas etc.*

EZY Series

This model is a portable analyzer which uses Detective element made of Zirconia electrolyte. EZY sensor and C-301 control unit are installed altogether in a box for portable uses.

Principle



Sensing cell is a closed end, 90mm length and 7mm diameter. Tube made of Zirconium oxide. When it is red hot, it becomes a oxygen measuring cell because of movement of oxygen ions in its crystal structure.

If there are two different oxygen gases on both side of the cell, a voltage is produced.

For the oxygen in combustible gases, the oxygen value is calculated from following formula:

$$E = 0.0496 \cdot T \log \frac{\text{Air (20.6\% = 206,000ppm = 0.206atm)}}{\text{Sample = O}^2\%, \text{O}^2\text{ppm, O}^2\text{atm}} + C$$

E: cell voltage(mV) T: absolute cell temperature
C: cell constant(mV) O²atm: vol% of oxygen of

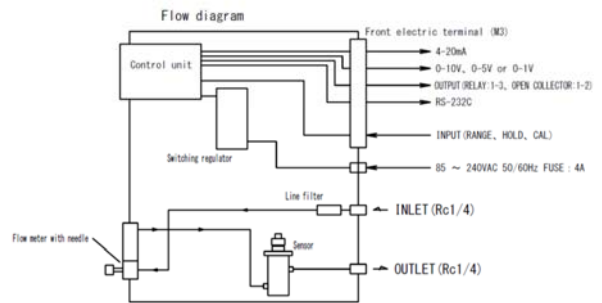
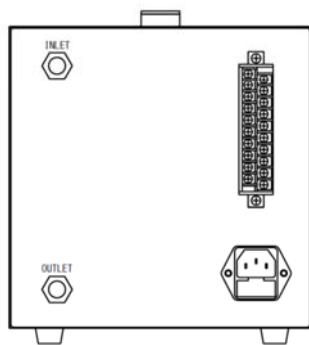
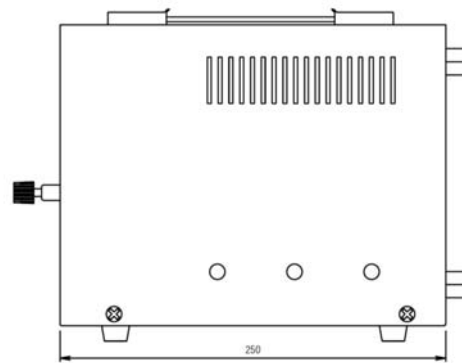
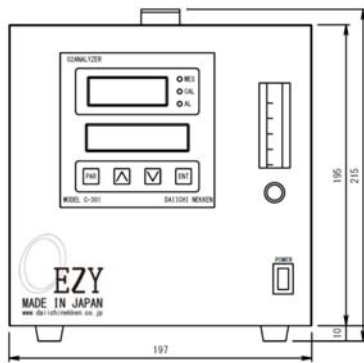
✳About 2 years warranty

•It is limited our original instrument only.

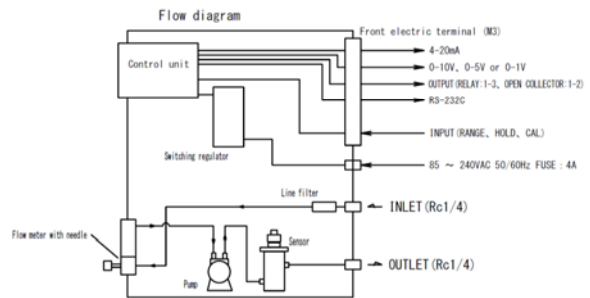
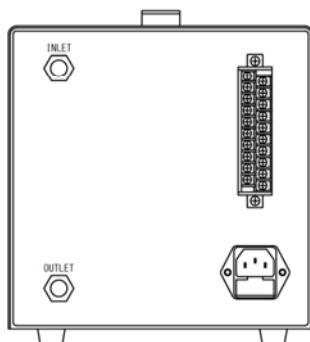
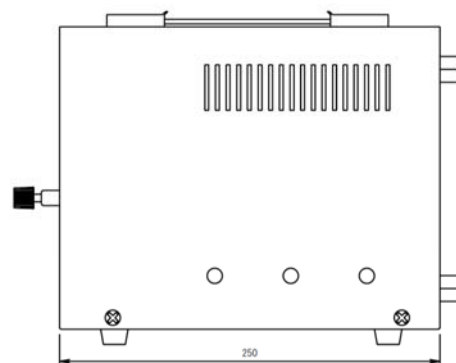
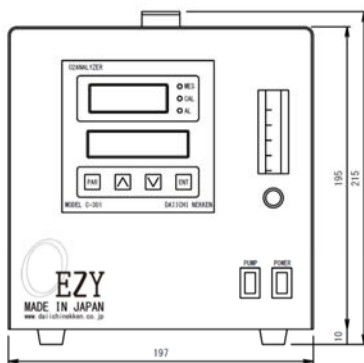
•Consumption parts such as filter, O-ring are except

•In case of the sampling gas contains strong acidity, strong alkaline, or corrosiveness, it may be out of warranty.

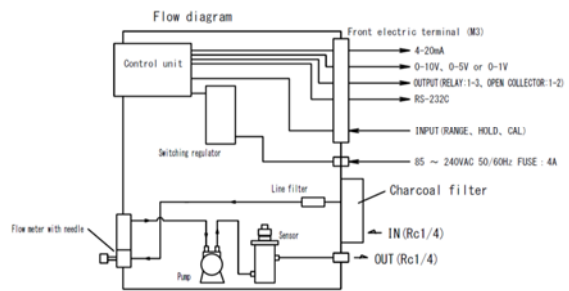
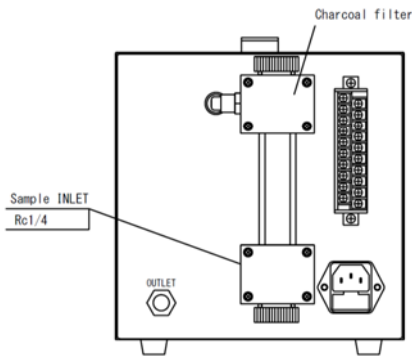
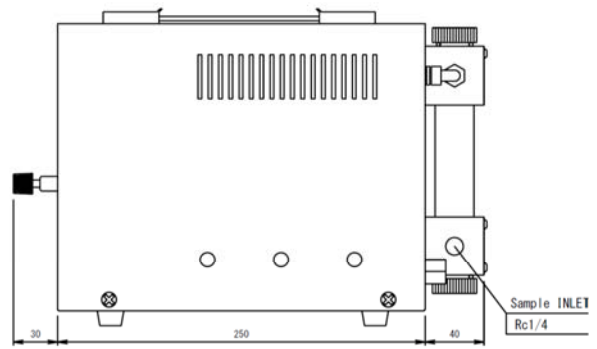
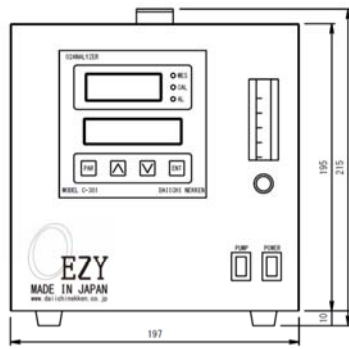
EZY-1 Dimensions



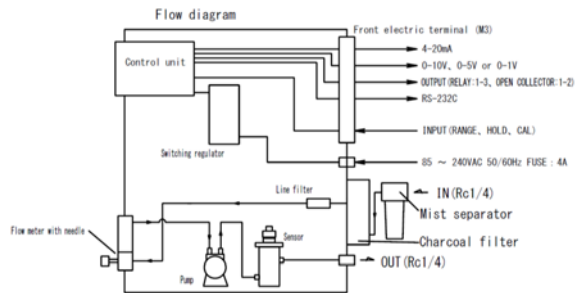
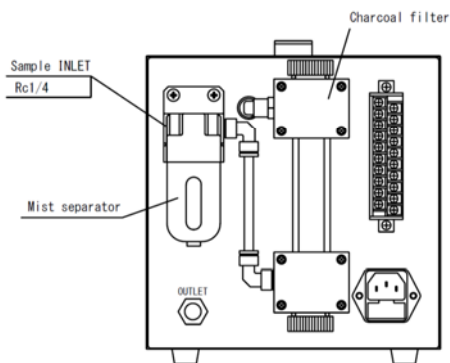
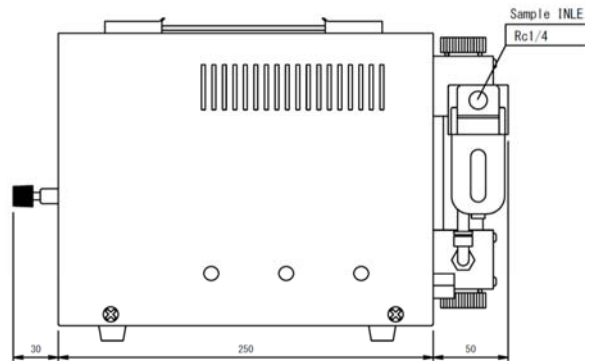
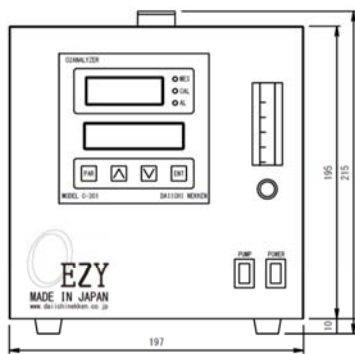
EZY-2 Dimensions



EZY-2C Dimensions



EZY-2R Dimensions



EZY Series

Specification

M o d e l	A B C EZY-□□-□ Ex.) EZY-1-G EZY-1C-R EZY-2R-B								
A : Inside pump	1 : NO 2 : YES								
B : F i l t e r	Blanc : NO C : Charcoal filter R : Charcoal filter + Mist separator								
C : C o l o r	G : Green R : Red B : Blue								
P r i n c i p l e	Zirconia electrolyte								
S t r u c t u r e	SPCC box, EZY sensor, C-301 Control unit, Flow meter with needle								
M e a s u r i n g r a n g e	1ppm~100%O ₂								
D i s p l a y	% : 0~99.99%O ₂ / ppm : 0~9999ppmO ₂								
O u t p u t	4~20mADC (Isolated) 0~1VDC, 0~5VDC, 0~10VDC (Isolated, select one of them) RS-232C Relay : 3pcs(Contact A), Open collector : 2cs(Possible to set below freely) <table border="0" style="width: 100%;"> <tr> <td style="font-size: 3em; vertical-align: middle;">}</td> <td>Concentration alarm : Hi/Lo, HHi/Hi or Lo/LLo (OLED display)</td> </tr> <tr> <td></td> <td>Sensor failure : Heater, RTD broken (OLED display)</td> </tr> <tr> <td></td> <td>Warm-up finish signal</td> </tr> <tr> <td></td> <td>Range answer back</td> </tr> </table>	}	Concentration alarm : Hi/Lo, HHi/Hi or Lo/LLo (OLED display)		Sensor failure : Heater, RTD broken (OLED display)		Warm-up finish signal		Range answer back
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	Sensor failure : Heater, RTD broken (OLED display)								
	Warm-up finish signal								
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C o n t a c t i n p u t	Remote calibration Output(Voltage/Current) holding Remote range change								
R a n g e c h a n g e	Auto/Manual/Remote								
D e f a u l t s e t t i n g	0~25.00%O ₂ / 0~9999ppmO ₂								
G a s s u p p l y	1 (No pump) : Supply with pressure 2 (Pump) : Sucking by pump								
P r e s s u r e	Till 2atm								
D r i f t	Large one either of less than ±1%FS or ±1ppm								
L i n e a r i t y	Large one either of less than ±1%FS or ±1ppm								
R e p e a t a b i l i t y	90% reading 10sec. (Swinging to a high density side)								
R e s p o n s e	Less than ±2%FS/week								
P i p i n g	Rc1/4								
F l o w r a t e	0.2~2L/min.								
S a m p l e t e m p .	60°C MAX.								
W a r m - u p	About 20 min.								
P o w e r	85~240VAC								
A c c e s s o r y	3 meters of Power supply code								

※For the improvement, the specification and design may be changed without prior notice.

Inquiry



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