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

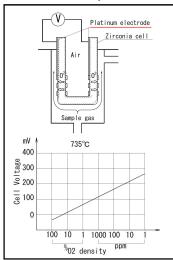
Application

- > 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.

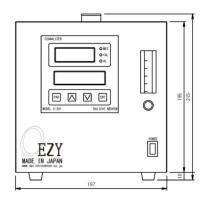
If there are two different oxygen gases on both side of the cell, a voltage is produced.

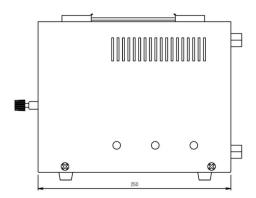
$$E = 0.0496 \cdot T \log \frac{0.206atm}{0.206atm} + 0$$

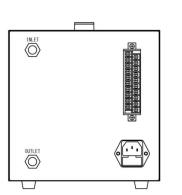
$$Sample = O^{2}\%, O^{2}ppm, O^{2}atm$$

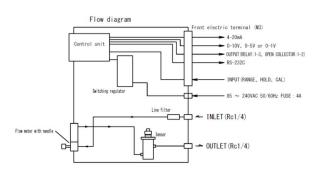
E: cell voltage(mV) T: absolute cell temperature C: cell constant(mV) O²atm: vol% of oxygen of

EZY-1 Dimensions

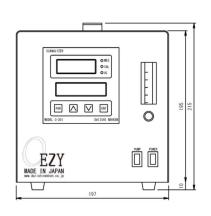


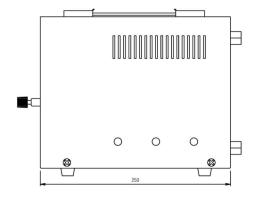


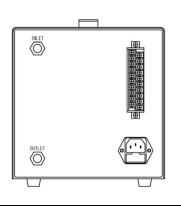


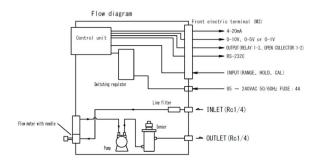


EZY-2 Dimensions

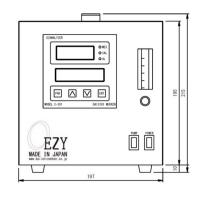


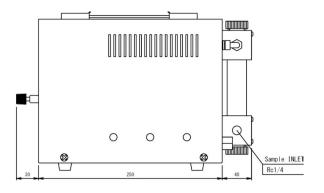


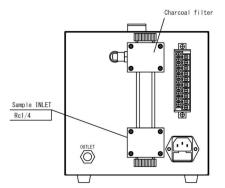


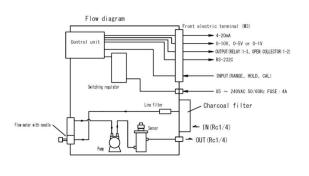


EZY-2C Dimensions

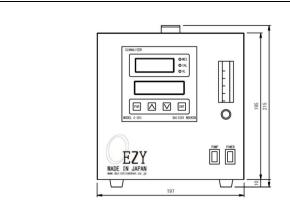


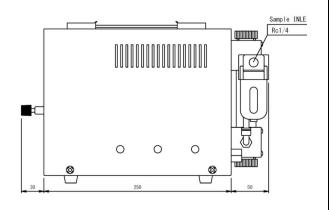


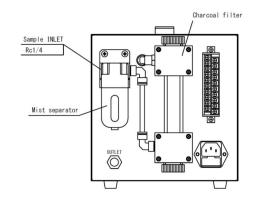


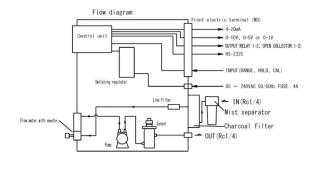


EZY-2R Dimensions









Specification

Specification	
M o d e l	AB C EZY-DD-D Ex.) EZY-1-G EZY-1C-R EZY-2R-B
A: Inside pump	1 : NO 2 : YES
B: Filter	Blanc : NO C : Charcoal filter R : Charcoal filter + Mist separator
C: Color	G: Green R: Red B: Blue
Principle	Zirconia electrolyte
Structure	SPCC box, EZY sensor, C-301 Control unit, Flow meter with needle
Measuring range	1ppm~100%O2
D i s p l a y	% : 0~99.99%O²∕ppm : 0~9999ppmO²
Output	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) 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
Contact input	Remote calibration Output(Voltage/Current) holding Remote range change
Range change	Auto/Manual/Remote
Default setting	0~25.00%O²∕0~9999ppmO²
Gas supply	1 (No pump) : Supply with pressure 2 (Pump) : Sucking by pump
D r i f t	Large one either of less than ±1%FS or±1ppm
Linearity	Large one either of less than ±1%FS or±1ppm
Repeatability	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
Flow rate	0.2 ~ 2L∕min.
Sample temp.	60°C MAX.
Warm-up	About 20 min.
P o w e r	85~240VAC
Accessory	3 meters of Power supply code

[%]For the improvement, the specification and design may be changed without prior notice.

Inquiry



13-22 Nishikura-Cyo, Ashiya-City, Hyogo-Prefecture, Japan ZIP:659-0026 TEL 0797-31-2410 / FAX 0797-31-8951 URL http://www.daiichinekken.co.jp E-mail info@daiichinekken.co.jp