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

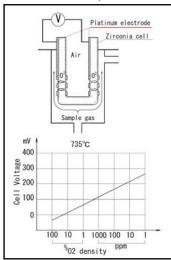
Application

- 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.

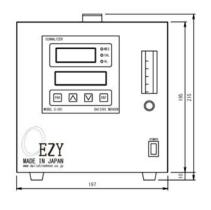
If there are two different oxygen gases on both side of the cell, a voltage is produced.

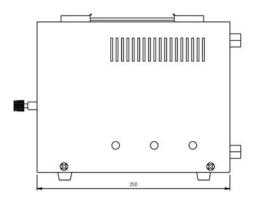
$$E = 0.0496 \cdot T \log \frac{0.206atm}{0.206atm} + O$$

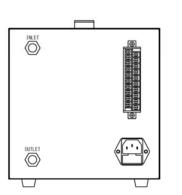
$$Sample = O2\%, O2ppm, O2atm$$

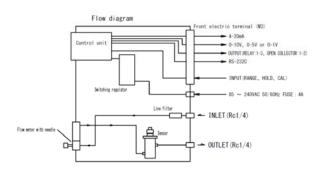
E: cell voltage(mV) T: absolute cell temperature C: cell constant(mV) O²atm: vol% of oxygen of

EZY-1 Dimensions

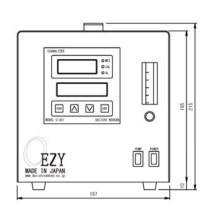


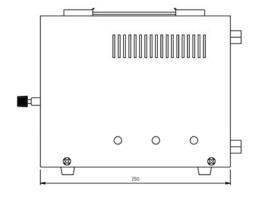


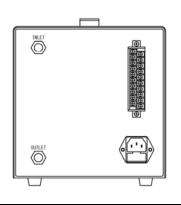


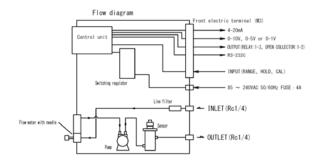


EZY-2 Dimensions

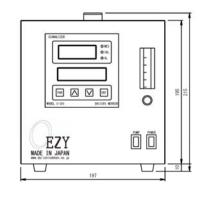


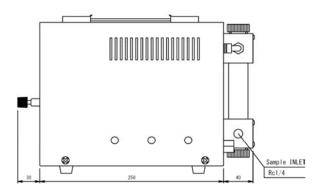


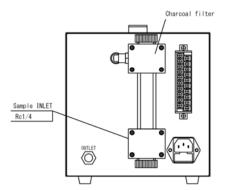


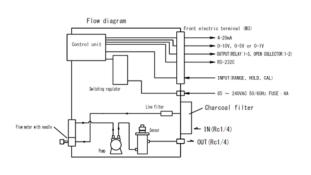


EZY-2C Dimensions

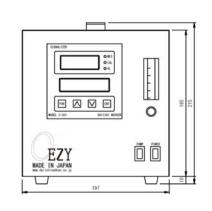


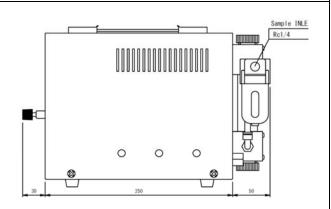


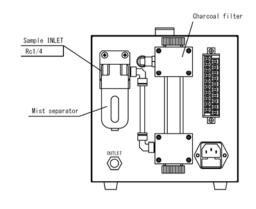


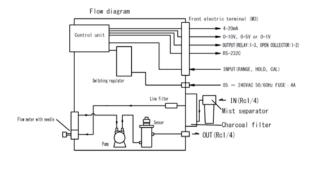


EZY-2R Dimensions









EZY Series

Specification

| M o d e l | A B $$ C $$ EZY- \square - \square 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 |
| Pressure | Till 2atm |
| 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 $\pm 2\%$ FS/week |
| P i p i n g | Rc1/4 |
| Flow rate | 0.2 ~ 2L∕min. |
| Sample temp. | 60℃ 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



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