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Compact Design, Best for Installing in Auto-Packer

Zirconia Oxygen Analyzer

Model: LF-200

Zirconia O2 Analyzer Model LF-200 is developed for automatic packaging machine, based on our long experience of O2 analyzers for food packaging industry.

It has achieved its higher durability due to equipped Toray unique zirconia mini-sensor available for long-term stable and precise measurement, and O2 sensor protection system.

It is most suitable to be installed in various auto-packer for food or medicine with simple operation and compact size.

Features

Remove Oil

New type filter is good for oil-mist. Direct filter- replacement is available.

Suction Pump Protection Function

It is available to avoid trouble caused by air blow cleaning and protect pump.

Field Calibration

Field calibration is available (calibration kit is option).

Fast Response

Internal piping flow minimizing the measurement gas gathering.

Power Supply

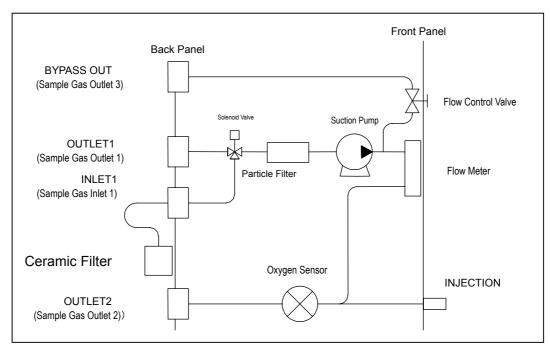
AC200V is the standard to be easily installed in the packer(AC100V is option).



※Portable Type(Option)

Measurement Principles

Toray's Zirconia Oxygen Analyzers determine oxygen concentration using the conductivity of a zirconia ceramic cell. Zirconia ceramic cells only allow oxygen ions to pass through at high temperatures. With reference gas on one side and sample gas on the other, oxygen ions move from the side with the highest concentration of oxygen to that with the lowest concentration. The movement of ions generates an Electro Motive Force, which can be measured to determine the oxygen content. This is in accordance with the so-called Nernst Equation.



LF-200 Internal Flow

Specifications

1. Instruments Specifications

Panel Mounted(Portable type is option) Digital 4 Digits(Concentration Display) Display

Meas. Range 1ppm~100vol%O₂

0- 1000ppm/1/10/100% Auto Range Display Analog output 0-0.5/5/10/100% Selectable Fixed range

※1000ppm range is reference value.

(No Guarantee)

Sampling Method Continuous suction by built-in pump

& Injection

XInjection method is reference value.

(No Guarantee)

Supplied Gas 1000ml/min Sensor Gas $60 \pm 10 \text{ml/min}$

Gas Connection INLET(Filter In) Rc1/8

> BYPASSOUT(Bypass Outlet) Rc1/4 OUTLET1(Sample Gas) Rc1/4 OUTLET2(Sample Gas) Rc1/4

Reference Gas Atmospheric Gas Weight Approx. 7.0kg

Silver-metallic(Front & Rear Panel) Color

Non-painted Stainless steel(Cover)

2. Performance

Repeatability ±1%FS(more than 0-1% range)

> ±2%FS(less than 0-1% range) (0-1000ppm is no guarantee)

±0.5%FS/24h Air Point Stability

3. Engineering Specifications

External Output: DC4~20mA Meas. Value Output

LED Display(upper/lower limit) Concentration Alarm Output

Contact Output: 2a Individual Output

Contact Capacity: AC30V DC30V, 0.5A

Self Diagnosis Warm-up Error, Thermocouple Error,

Over Heat Error

CPU Error, Furnace Error Asymmetry Potential Error Sensor Resistance Value Error AIR Point Calibration Error

SPAN Point Calibration Error

Neither Fammable, Halogen, Silica, Corrosive Sample Gas Conditions

nor Waterdrop shall be contained. Pressure: Less than 0.014MPa Flow: 1000~2000ml/min Temperature: Less than 40°C

Humidity: Dew point shall be lower than ambiet temperature

Power Source Voltage: AC200V Terminal Connect

Frequency: 50/60Hz

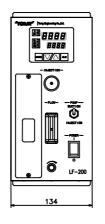
Installation Conditions Location: Indoor, Non Explosion Area

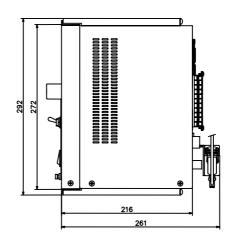
Ambient Temperature: 0~40°C

Ambient Humidity: 45~85%RH, No dew generated

Option RS-232 Output

Active Carbon Filter, Cotton Filter







Cautions

For your safety and correct operation, please read the instruction manual carefully before use.

■The design and specifications may be changed without notice for improvement.

■Please send any questions or requests to the following address.



Equipos de control de calidad

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