www.gassensor.com.cn

Gasboard 8500FS-L240

Ultrasonic 5-in-1 Oxygen and Flow Sensor

Gasboard-8500FS is Cubic's ultrasonic technology 5-in-1 combined solution for medical ventilators. It can measure flow rate, oxygen concentration, temperature and humidity in binary gases. The measured flow rate can be up to 240L/min. Gasboard-8500FS can be widely used for medical ventilators of expiratory, inspiratory or proximal demands.

Features

- Ultrasonic measurement technology, for both oxygen concentration and flow rate.
- Based on principle of TOF (time of flight) measurement, continuous monitoring, no drift, no need routine calibration, maintenance-free.
- With built-in temperature and humidity sensor for full scale matrix temperature and humidity compensation.
- No-consuming parts, long life span.
- Pressure compensation is also available as option.

Key Features

- O_2 Oxygen Concentration Measurement
- Large Air Flow Rate Up to 240L/min
- Temperature Correction
- Humidity Compensation

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Ultrasonic 5-in-1
Oxygen and Flow Sensor

Measurement

- O_2 Concentration: 0%~100%
- O_2 Flow Rate: 0~240L/min

Accuracy

- O_2 Concentration:
  ±2.5%FS@(10~40)°C;0~40%RH
  ±3%FS @(5~45)°C;0~95%RH (Non-condensing)
- O_2 Flow Rate:
  ±0.2L/min (＜10L/min),
  ±2.0% reading (≥10L/min)

Resolution

- O_2 Concentration: 0.1%
- O_2 Flow Rate: 0.1L/min

Response Time

- O_2 Concentration: ＜0.1s
- O_2 Flow Rate: ＜10ms

Gas Supply

- PSA or Pure 100% Oxygen

Power Supply

- Work Voltage:
  DC 4.75~12.6V, Ripple Wave≤50mV
- Work Current:
  Average Current＜16mA; Peak Current≤35mA

Communication

- UART_TTL (3.3V)
- Analog Output:
  O_2 Concentration: 0.2~2.5V
  O_2 Flow Rate: 0.2~2.5V

Environmental

- Work Condition:
  5~45°C; 0~95%RH(Non-condensing)
- Storage Condition:
  -20~70°C; 0~95%RH(Non-condensing)

Life Span

- ≥15 Years

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