



Model No : V.air - 9001

SO₂ Gas Analyzer

- **Digital output the instrument parameters**
- **Measuring range 0-50 ppb to 0-20 ppm, User-selectable**
- **Color display, touch screen operation**
- **Large-capacity memory automatically stores historical data**
- **With temperature and pressure compensation with USB and Ethernet interfaces**

Description :

Sulfur dioxide Analyzer using Ultraviolet fluorescence principle, combined with the most advanced microprocessor technology provides accurate, reliable low ppb-ppm levels of SO₂, suitable for atmospheric monitoring and dilution of pollution online monitor application.

Work is the basic principle of UV fluorescence method for sulfur dioxide Analyzer. SO₂ reception of ultraviolet energy excited state molecules return to ground state, issued a characteristic fluorescence, fluorescence intensity of material can be quantitatively measured. Through the use of regular measurement of dark current compensation enlarger PM d drift and corrected using the reference detector UV lamp intensity change, and improve the stability of measurements. Removal And unique optical design of efficient hydrocarbon removal effectively eliminates inaccuracies created by interference.

Full control over all the functions of this instrument at the same time, can also provide important operating parameters of online instruction. During the measurement, real - time automatic compensation of the temperature and pressure changes.

Technical Specifications :

| Parameters: | Indicator |
|-----------------------------|---|
| Concentration Units | ppb,ppm,"ug/ m3, mg/ m3 |
| Zero noise | 0.2 ppb |
| Quantum noise | 0.5% ppb or 0.2 ppb or more |
| Detection limit | 0.4 ppb |
| Zero drift (24 h) | 1 ppb |
| Zero drift (7 days) | <1 ppb |
| Span drift (7 days) | <1%F.S. |
| Linearity | <1%F.S. |
| Precision | <1% |
| Response time | <120s to 95% |
| Sample gas flow | (400± 50) sccm |
| Operating temperature range | (5 -- 40)°c |
| Operating humidity range | (0 -- 95)% RH |
| Instrument size | l78mmx432mmx600mm |
| Instrument weight | < 20 KG |
| Power supply | 200—240V,50/60Hz, 300W |
| Interface | Analog outputs, digital output, R232, R485, Ethernet interface, USB interface |
| Communication protocol | Modbus |

FEATURE

- Measuring range 0-50 ppb to 0-20 ppm, User-selectable
- dual range and auto-range microprocessor multi-function operation
- Software allows monitoring data during the operation continuous detection with alarm light
- Attenuation self-test feature bi-directional RS-232 side
- With alarm function for continuous self test feature bi-directional light attenuation
- RS-232 port for remote control
- Digital output the instrument parameters
- Adaptive signal filtering techniques optimize response time
- With temperature and pressure compensation with USB and Ethernet interfaces
- Color display, touch screen operation
- Large-capacity memory automatically stores historical data



VASTHI INSTRUMENTS

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