

9 / UV DOAS Gas Analyzer

【PRODUCT DESCRIPTION】

SUV-100 UV Gas Analyzer is independently developed by Shandong Xinze Instruments. Based on UV absorption spectroscopy and chemometric algorithms, it measures SO₂, NO, NO₂, O₂, NH₃, Cl₂, O₃, H₂S and other gases. It features high accuracy, reliability and fast response, and performs better than mainstream similar products. Widely used in environmental monitoring, industrial control and safety detection.



【PRODUCT FEATURES】

- Adopts DOAS for SO₂, NO_x analysis. Higher precision, lower detection limit and less temperature drift than NDIR. 10:1 dual range with auto-switching.
- Modular structure ensures reliable performance, easy expansion and maintenance.
- Pulsed xenon cold light source lasts over 5 years, no preheating required and highly stable.
- Simultaneous NO & NO_x measurement calculates total NO_x, eliminating the need for NO_x converter.

【TECHNICAL PARAMETERS】

Item	Specification Index
Measurement Principle	NO, SO ₂ , NO ₂ : Ultraviolet Differential Optical Absorption Spectroscopy (DOAS)
	O ₂ : Electrochemical
Measurement Range	SO ₂ , NO _x : (0–200, ..., 2000) mg/m ³ , range customizable
	O ₂ : Electrochemical
Zero Drift	≤ ±2% F.S.
Span Drift	≤ ±2% F.S.
Linearity Error	≤ ±2% F.S.
Repeatability	≤ 2%
Communication Interfaces	RS232, RS485, digital inputs, digital outputs, 4–20 mA analog outputs
Power Supply	AC 180–240 V, 50 Hz, 60 W
Operating Environment	15 °C – 30 °C; ≤ 60% RH
Overall Dimensions	482.6 mm (19") × 177 mm (4U) × 347 mm