

## Ultra-Low Gas Analyzer

1. Product Name: Ultra-Low Gas Analyzer

2. Product Model: ECO-AS8013

3. Product Overview: The ECO-AS8013

online gas analyzer produced by Yikede is composed of an ultraviolet spectrometer,

optical gas measurement cell, ultraviolet light source, and algorithms, all independently designed and produced by High Communication. This ECO-AS8013 online gas analyzer has high resolution, excellent stability, selectable spectral range, selectable absorption light path, ease of secondary integration, and convenience for upgrades and maintenance. It is one of the few excellent gas analysis products in the industry.

4. Product Application: Measuring gases that absorb ultraviolet spectra (such as SO<sub>2</sub>, NO, and NO<sub>2</sub>) used for monitoring flue gas, automobile exhaust, ship exhaust, and malodorous gases.

5. Technical Indicators:



Function	Parameter	Note
Measurement components	SO <sub>2</sub> ,NO and NO <sub>2</sub>	Direct measurement of SO <sub>2</sub> , NO and NO <sub>2</sub>
Measurement principle	Ultraviolet Differential Optical Absorption Spectroscopy (DOAS): SO <sub>2</sub> 、 NO、 NO <sub>2</sub>	
Measurement range	0 ~ 100mg/m <sup>3</sup> (SO <sub>2</sub> 、 NO、 NO <sub>2</sub> )	
Resolution	SO <sub>2</sub> /NO/NO <sub>2</sub> : 0.1mg/m <sup>3</sup>	
Linear error	≤±1.5% F.S.	
Repeatability	≤0.5% F.S.	
Zero drift	≤±1.5%F.S./7d	

Range drift	$\leq \pm 1.5\% \text{F.S./7d}$	
Response time	< 30s (T90)	
Optimal flow rate	1.0L/min	
Switch output	2 active contacts, 3 passive contacts	
Switch Output Type	High Limit / Base Limit Programmable	
Digital Output	Modbus	
Digital Output Type	RS485 (default) / RS232 (optional)	
USB Software Upgrade	Supported	
Display Screen	7-inch capacitive touchscreen	
LCD Type	RGB color	
Operating System	Linux	
Power Supply	220V AC, 50Hz	
Peak Current	<2A@220V	
Average Power Consumption	<60W	
Atmospheric Pressure	(86~108)kPa	
Operating Temperature	0°C ~ +40°C	Special requirements can be customized
Working Humidity	0 ~ 95%RH	

**6. Product Structure Diagram**

