

13 / In-situ Laser Gas Analyzer

【PRODUCT DESCRIPTION】



The SLAS-100 Laser Gas Analyzer uses TDLAS technology for accurate, interference-free measurement. It offers fast response, high reliability, low maintenance and cost.

With in-situ installation, it enables real-time concentration monitoring for process control and safety interlock. Widely used in steel, petrochemical, power and waste-to-energy plants.

【PRODUCT FEATURES】

The SLAS-100 is directly installed in gas pipelines without complex sampling systems. It has a simple, moving-part-free design. The OLED display ensures low power consumption, wide viewing angle, and reliable operation even at -40°C. It resists interference from background gases, dust and window contamination, and automatically compensates for gas temperature and pressure.

【TECHNICAL PARAMETERS】

Item	Specification Index
Measured Components	CO ₂ , H ₂ S, HCl, NH ₃ , C ₂ H ₂ , O ₂ , CO, etc.
Measuring Range	0~100% (adjustable range)
Linearity Error	≤±1% F.S. / 6 months
Repeatability	≤±1%
Explosion-proof Grade	EXd II CT6
Protection Grade	IP66
Warm-up Time	≤15min
Response Time	T90≤1s
Interface Signals	Analog Output: 2 channels 4~20mA (isolated, maximum load 750Ω)
	Dual Relay Output: 3 channels output (24V, 1A)
	Analog Input: 2 channels 4~20mA (for temperature and pressure compensation)
	Communication Interface: RS485, RS232
Power Consumption	24VDC, < 20W
Operating Environment	Temperature: -30°C ~ +60°C; Humidity: ≤90% RH
Operating Gas Source	0.3~0.8 MPa industrial nitrogen or purified instrument air, etc