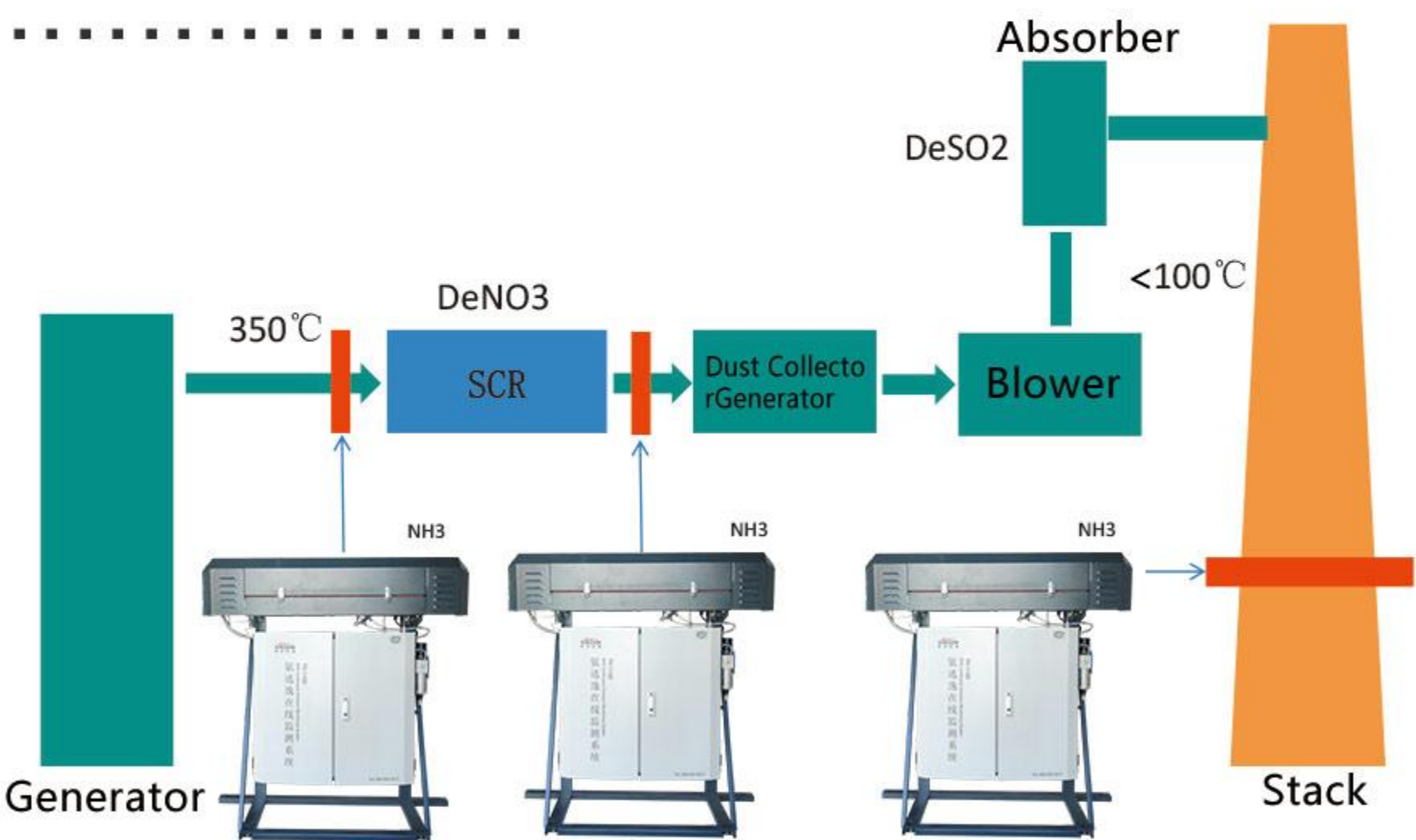


3 / Ammonia Slip Online Monitoring System (High-temperature Extraction Laser)

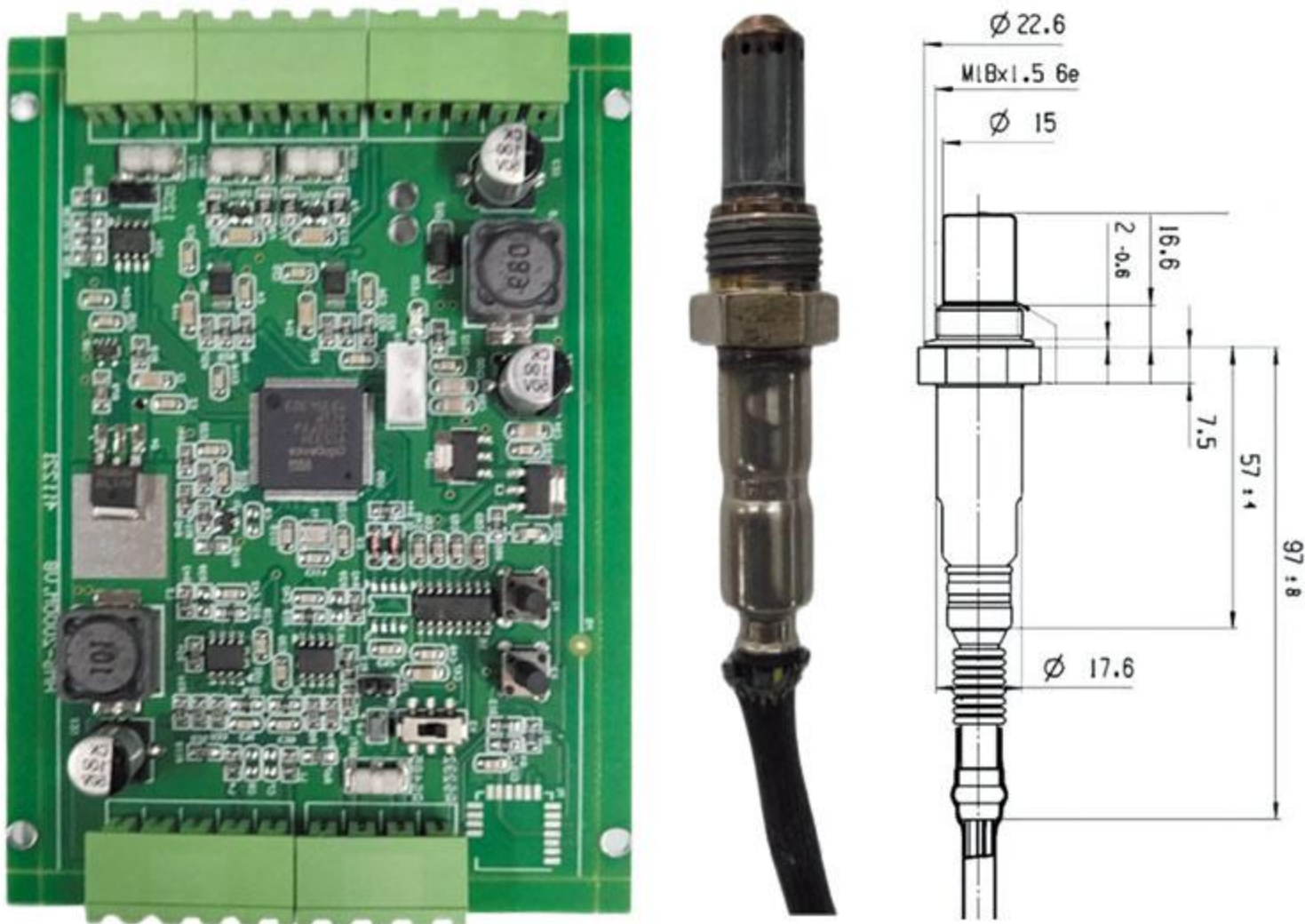
【PRODUCT DESCRIPTION】

The TK-1100 ammonia slip online monitoring system comprises three core units: sampling and transmission, pretreatment and control, and analysis. It adopts full-process high-temperature heat-tracing extraction technology for continuous online flue gas monitoring. Equipped with TDLAS (Tunable Diode Laser Absorption Spectroscopy), it delivers high-precision and stable gas detection.



【PRODUCT FEATURES】

- Adopts double-cell thick-film zirconia. Optional simultaneous detection of NH3, NOx and O2.
- Standard modular design, simple and reliable.
- Mechanical jet pump for sampling, high stability.
- TDLAS technology applied, long service life.



【TECHNICAL PARAMETERS】

Item	Specification
Measuring Range	0~10/20 ppm/mg/m³, range customizable
T90 Response Time	< 120S
Indication error	≤±2%F.S.
Repeatability	≤±2%F.S.
Zero/span drift in 24h	≤±2%F.S.
Min resolution	0.1ppm
Analog output	1×RS485, backflush, system/temp alarms, customizable
Analog Output	4-20mA loop, max load 500Ω, isolated
Digital output	Load capacity: AC/DC24V/1A (high/low concentration alarm)
Warm-up time	120min
Heating temperature	180°C~200°C
Sampling flow	2~3L/min
Gas source	0.4~0.8Mpa (Oil-free & water-free)
Ambient temperature	-30°C~55°C
Protection class	IP65
Power requirement	AC220V, 50Hz
Power consumption	≤3KW
Overall dimension	1220H*1200L*500W (mm)
Weight	100kg

Measurement Principle	Current-type NOx sensor
Detection Range	NOx0~3000ppm
	O20~21%vol
Measurement Precision	NOx±2%F.S.
	O2±1%F.S.
Repeatability	±2%F.S.
Response time	T90<60s
Sampling Method	Diffusion type
Flue Gas Temperature	0~500°C
Power Supply	12VDC36W
Output Interface	RS485/RS232/4-20mA
Communication Protocol	Modbus RTU