

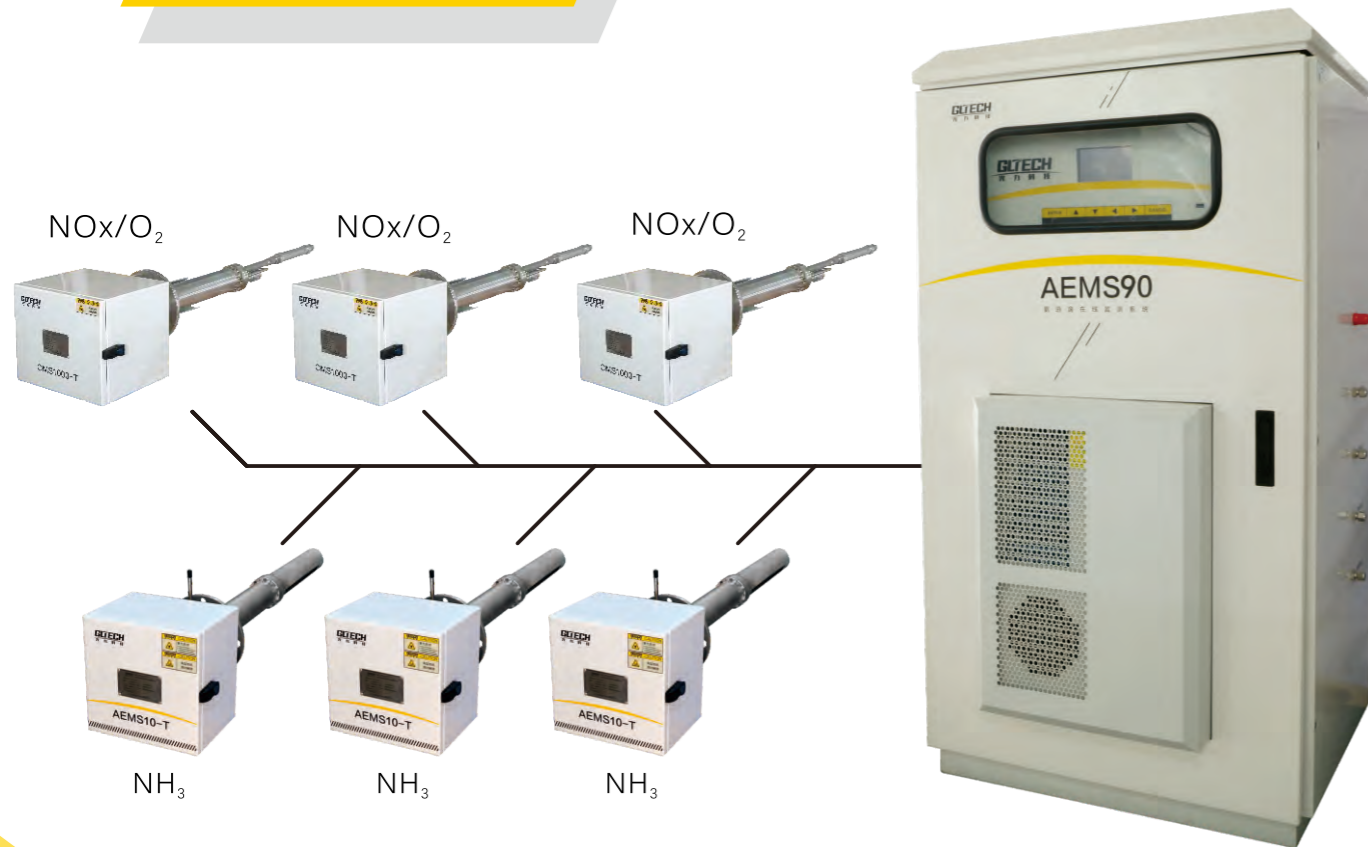
One-Stop Solution for SCR Process Monitoring

AEMS90

SCR Evaluation and CEMS System for DeNOx Process

This integrated online monitoring system for ammonia and nitrogen oxides utilizes TDLAS and semiconductor sensing technology. It is an in-situ monitoring system designed specifically for precise measurements of nitrogen oxides, oxygen, and ammonia emissions in high-temperature, high-flow, and high-dust environments in the outlet flue of Selective Catalytic Reduction (SCR) denitrification systems. The system utilizes an integrated in-situ measurement approach, which enables synchronous, real-time online monitoring of nitrogen oxides, oxygen, and ammonia emissions within divided zones. The monitored data can be uploaded to the Distributed Control System (DCS), offering invaluable insights for precision ammonia injection adjustments.

System Configuration



Features

NO1 Multi-Parameter Monitoring in Real-time

Simultaneously monitor parameters including ammonia emissions, nitrogen oxides, oxygen levels, temperature, and moisture of each divided zone in real-time, providing timely and effective data support for precise ammonia injection.

NO2 Integrated In-Situ Measurement Approach

Eliminating laser misalignment issues caused by deformation and vibrations on the flue.

NO3 Maintenance Made Effortless

In-situ measurement inside the flue without sampling pipelines, completely avoiding issues related to blockage caused by gas sampling and processing.

Technical Specification

Probe	Integrated In-situ probe with closed cavity				
	NH ₃	NO _x	O ₂	Temp.	R.H. %
Measuring Range	0~20/50/100 μmol/mol	0~10/1000 mg/m ³	0~25%	0~500 °C	0~20%
Linear Deviation	≤1 % F.S	≤±2 % F.S	≤±2 % F.S	≤±5 % F.S	≤±2 % F.S
Probe Operating Temp.	250~450 °C				
Display	TFT true color LED				
Data Signal	4~20 mA				
Alarm Signal	SPST				
Communication	RS485, CAN				
Power Rating	100~240 V AC, 50±2 Hz, ≤10 A				