







# Flue Gas Analyzer

## Product Recommendation Matrix





### ▼ Sensor Bench

Model	Technologies	Measurement Gas	Range		Feature
			Min Range	Max Range	
 Gasboard-2105	Micro-flow NDIR	SO <sub>2</sub>	0~200ppm	0~5%	<ul style="list-style-type: none"> <li>Patented (PCT/CN2018100767) Micro-flow NDIR sensor with dual-chamber design for measured gas and reference gas</li> <li>Except SO<sub>2</sub> and NO, it also can measure CO, CO<sub>2</sub>,CH<sub>4</sub>,N<sub>2</sub>O and SF<sub>6</sub></li> <li>One sensor bench measure one gas separately, flexible for integration</li> <li>Automatic temperature compensation</li> <li>Built-in moisture adjustment device, eliminate the interference from H<sub>2</sub>O</li> <li>Measurement range can be customized</li> </ul>
		NO	0~200ppm	0~5%	
		CO	0~200ppm	0~5%	
		CO <sub>2</sub>	0~200ppm	0~5%	
		CH <sub>4</sub>	0~500ppm	0~10%	
		N <sub>2</sub> O	0~500ppm	0~10%	
 Gasboard-2205	UV DOAS	SO <sub>2</sub> +NO	0~50mg/m <sup>3</sup>	0~5000mg/m <sup>3</sup>	<ul style="list-style-type: none"> <li>One chamber for up to 3 gases components measurement simultaneously</li> <li>Measurement NO<sub>2</sub> directly without converter</li> <li>Suitable for ultra-low measurement of SO<sub>2</sub>, NO,NO<sub>2</sub>, the lowest range to be 0~50mg/m<sup>3</sup></li> <li>No moisture and vibration interference</li> </ul>
		NO+NO <sub>2</sub>	0~100mg/m <sup>3</sup>	0~5000mg/m <sup>3</sup>	
		SO <sub>2</sub> +NO+NO <sub>2</sub>	0~100mg/m <sup>3</sup>	0~5000mg/m <sup>3</sup>	
 Gasboard-2305	NDUV	NO <sub>2</sub>	0~200ppm	0~500ppm	<ul style="list-style-type: none"> <li>Measurement NO<sub>2</sub> directly without converter</li> <li>Can combine with Micro-flow NDIR NO sensor for optical NO<sub>x</sub> measurement</li> <li>No moisture and vibration interference</li> </ul>
 Gasboard-2005	Dual-beam NDIR	CO <sub>2</sub>	0~500ppm	0~100%	<ul style="list-style-type: none"> <li>Measurement high concentration CO,CO<sub>2</sub>,CH<sub>4</sub></li> <li>Measurement range can be customized</li> <li>No moisture and vibration interference</li> </ul>

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Model	Technologies	Measurement Gas	Range		Typical Configuration	Feature
			Min Range	Max Range		
 Gasboard-3000Plus	Micro-flow NDIR	SO <sub>2</sub>	0~200ppm	0~5%	SO <sub>2</sub> +NO+O <sub>2</sub> CO+O <sub>2</sub> CO+CO <sub>2</sub> +O <sub>2</sub> SO <sub>2</sub> +NO+CO+O <sub>2</sub> SO <sub>2</sub> +NO+CO+CO <sub>2</sub> +O <sub>2</sub> NO+NO <sub>2</sub> CO+CH <sub>4</sub> +N <sub>2</sub> O+CO <sub>2</sub> +O <sub>2</sub>	<ul style="list-style-type: none"> <li>Best choice for measuring SO<sub>2</sub>, NO, CO, CO<sub>2</sub>,CH<sub>4</sub> and N<sub>2</sub>O ≥ 200ppm</li> <li>One analyzer can max integrate three Micro-flow NDIR sensor + One dual beam NDIR sensor+ one ECD</li> <li>Micro-flow NDIR measure NO + NDUV measure NO<sub>2</sub> to NO<sub>x</sub> measurement with high accuracy</li> </ul>
		NO	0~200ppm	0~5%		
		CO	0~200ppm	0~5%		
		CH <sub>4</sub>	0~500ppm	0~10%		
		N <sub>2</sub> O	0~500ppm	0~10%		
	Dual-beam NDIR	CO <sub>2</sub>	0~500ppm	0~100%		
	NDUV	NO <sub>2</sub>	0~200ppm	0~500ppm		
ECD	O <sub>2</sub>	0~5%	0~100%			
 Gasboard-3000UV	UV DOAS	SO <sub>2</sub>	0~100mg/m <sup>3</sup>	0~1000ppm	SO <sub>2</sub> +NO+O <sub>2</sub> SO <sub>2</sub> +NO+NO <sub>2</sub> +O <sub>2</sub> NO+NO <sub>2</sub>	<ul style="list-style-type: none"> <li>Best choice for measuring SO<sub>2</sub>, NO ≤ 200ppm&amp; optional NO<sub>2</sub> measurement</li> <li>Measurement NO and NO<sub>2</sub> simultaneously without NO<sub>x</sub> converter</li> <li>No optical moving parts, without vibration impact</li> </ul>
		NO		0~2000ppm		
		NO <sub>2</sub>		0~2000ppm		
	ECD	O <sub>2</sub>	0~5%	0~100%		

**▼ Continuous Emission Monitoring System (CEMS)**

Model	Analyzer part	Technology	Measurement gas	Typical Configuration	Application
 Gasboard-9050	Gasboard-3000Plus	Micro-flow NDIR Dual-beam NDIR NDUV ECD	SO <sub>2</sub> ,NO,NO <sub>2</sub> , CO,CO <sub>2</sub> ,O <sub>2</sub>	SO <sub>2</sub> +NO+O <sub>2</sub> CO+O <sub>2</sub> CO+CO <sub>2</sub> +O <sub>2</sub> SO <sub>2</sub> +NO+CO+O <sub>2</sub> SO <sub>2</sub> +NO+CO+CO <sub>2</sub> +O <sub>2</sub> NO+NO <sub>2</sub> CO+CH <sub>4</sub> +N <sub>2</sub> O+CO <sub>2</sub> +O <sub>2</sub>	<ul style="list-style-type: none"> <li>• Pollution Emission Monitoring</li> <li>• Security Monitoring</li> <li>• Combustion Control</li> </ul>
	Gasboard-3000UV	UV DOAS ECD	SO <sub>2</sub> ,NO, NO <sub>2</sub> ,O <sub>2</sub>	SO <sub>2</sub> +NO+O <sub>2</sub> SO <sub>2</sub> +NO+NO <sub>2</sub> +O <sub>2</sub> NO+NO <sub>2</sub>	
 Gasboard-9085	Gasboard-2205	UV DOAS	SO <sub>2</sub> or SO <sub>2</sub> +NO	SO <sub>2</sub> +CO <sub>2</sub> SO <sub>2</sub> +NO+CO <sub>2</sub> +O <sub>2</sub> SO <sub>2</sub> +NO+NO <sub>2</sub> +CO <sub>2</sub> +O <sub>2</sub>	<ul style="list-style-type: none"> <li>• Ship Emission Monitoring</li> </ul>
	Gasboard-2005	Dual Beam NDIR	CO <sub>2</sub>		
	ECD	ECD	O <sub>2</sub>		
 Gasboard-9070	Gasboard-2205	High temperature UV-DOAS	NH <sub>3</sub> or SO <sub>2</sub> + NO+NH <sub>3</sub>	NH <sub>3</sub> SO <sub>2</sub> +NO+NH <sub>3</sub>	<ul style="list-style-type: none"> <li>• Desulfuration (FGD)</li> <li>• Denitration (DeNO<sub>x</sub>)</li> </ul>
 GasTDL-3000	TDLAS	TDLAS	NH <sub>3</sub>	0~20ppm up to 0~9999ppm * Other ranges available on request	<ul style="list-style-type: none"> <li>• SCR or SNCR denitrification device</li> <li>• NH<sub>3</sub> gas slip emission monitoring</li> <li>• Process monitoring.</li> </ul>
			O <sub>2</sub> CO CH <sub>4</sub> H <sub>2</sub> S H <sub>2</sub> O CO <sub>2</sub> C <sub>2</sub> H <sub>2</sub> *Available on Request	O <sub>2</sub> : 0~1% up to 0~100% CO: 0~1000ppm up to 0~100% CH <sub>4</sub> : 0~1000ppm up to 0~20% H <sub>2</sub> S: 0~10ppm up to 0~5% H <sub>2</sub> O: 0~10ppm up to 0~5000 ppm CO <sub>2</sub> : 0~10ppm up to 0~5% C <sub>2</sub> H <sub>2</sub> : 0~10ppm up to 0~5000 ppm * Other ranges available on request	<ul style="list-style-type: none"> <li>• Safety control</li> <li>• Process Control</li> <li>• Inertization</li> </ul>