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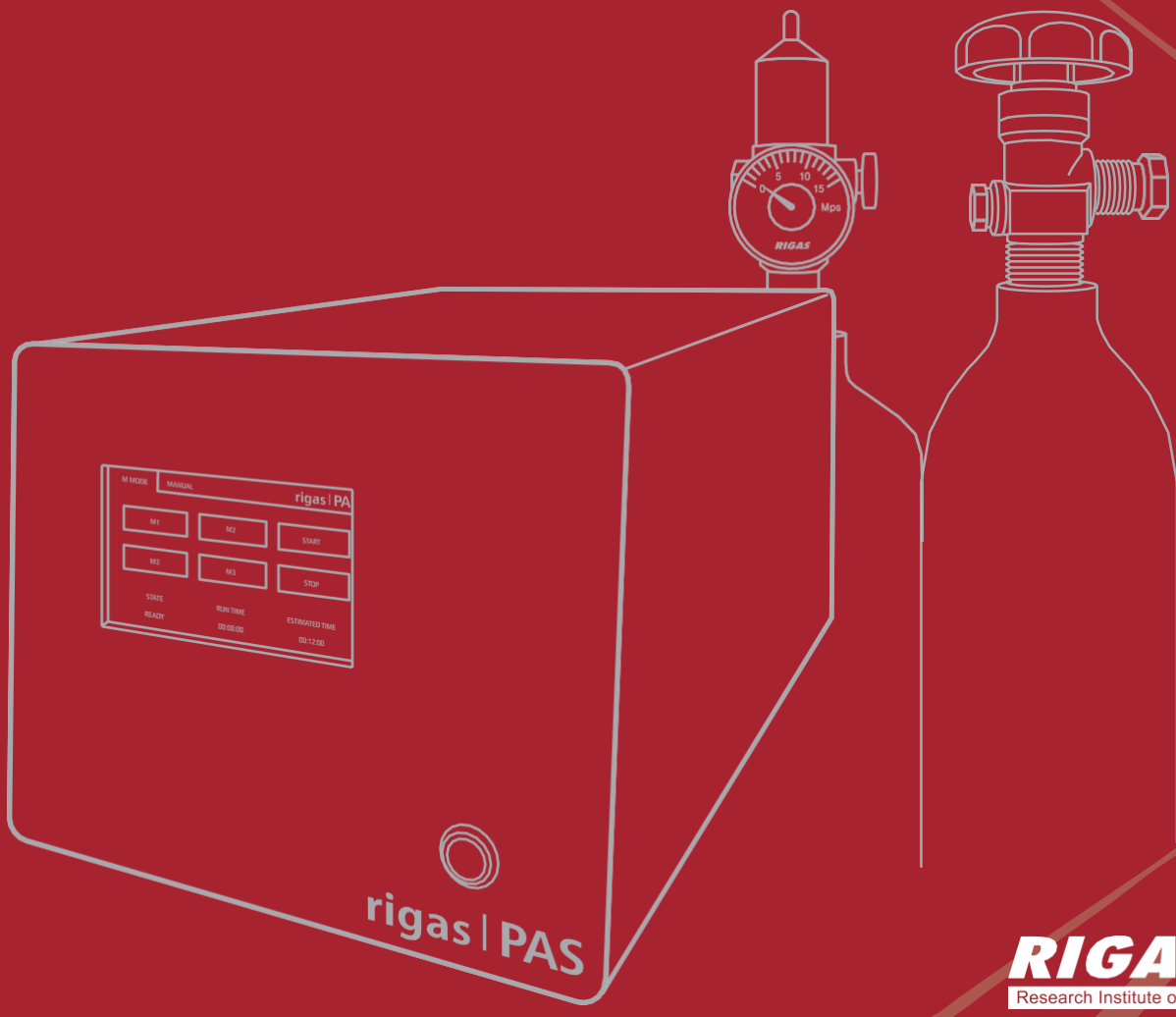
Pre Analysis System



RIGAS 리가스

Research Institute of Gas Analytical Science

rigas | PAS

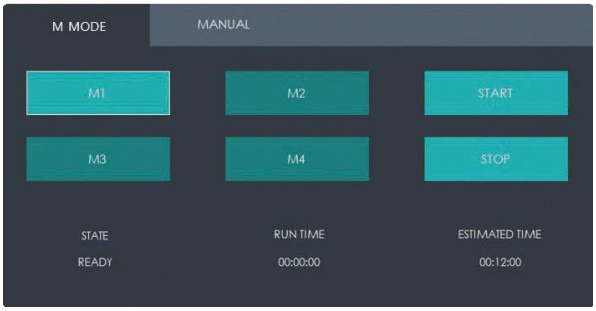
Pre Analysis System (PAS), a cleaning system that removes corrosive and adsorbent substances within sample introduction parts and equipment before/after analysis.

Special features

- Reduces analysis time: Rapidly removes previously analyzed components
- Reduces maintenance cost of analysis equipment: Removes air and moisture from systems before use
- Improves analysis accuracy: Delivers accurate analysis values by reducing effects of reactive/adsorbent components.
- Easy to use: Simple touch display

When to use

- Frequent system corrosion
- When using different types of gas
- If accurate analysis values are required
- In laboratory settings where equipment management is important



Screen Display

Specification

Size (H * W * D)	18 cm * 22 cm * 35 cm	Display	4.3 inch
Port size	1/8 inch	Power	220 V
Mode	Composed of M mode, MANUAL mode		

RIGAS develops methods for cleaning sample introduction parts before/after analysis. The developed method, as follows, is provided in PAS by default.

M Mode	Application Example
M1	Used to analyze general components without adsorption or reactivity
M2	Used to analyze absorbent or reactive components
M3	Used when composition of samples is easily changed, adsorbed, or when analyzing highly reactive components.
M4	Customizing according to customer request

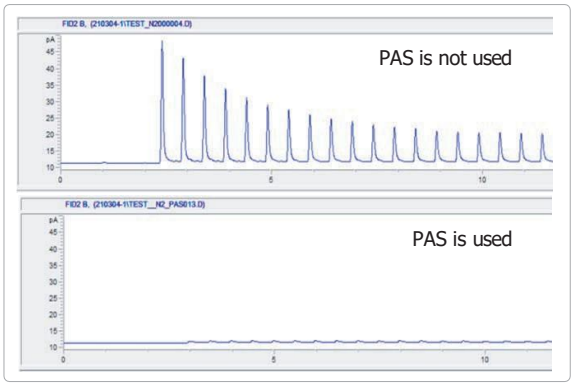
Select the desired mode according to analysis component and the following process is automatically activated, allowing you to easily optimize the state of analysis systems.

Gas discharge in the system ▶ Remaining gas Removal operation ▶ N2 gas purge ▶ Purge gas Removal operation ▶ Analysis standby state

Application examples

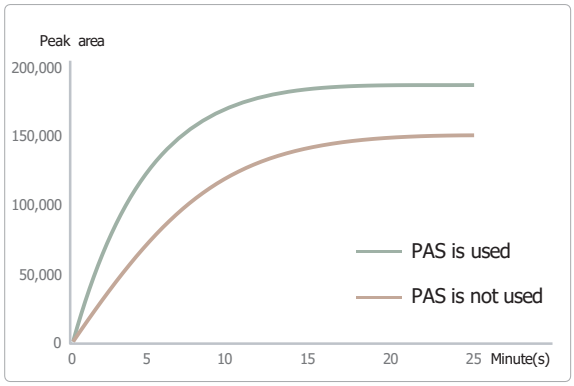
When analyzing corrosive/adsorbent components, e.g. HCl and DMMP, PAS is capable of significantly improving adsorption and desorption rates.

- Desorption efficiency of highly adsorbent components



(DMMP_Dimethyl methyl phosphonate, 100 μmol/mol)

- Adsorption efficiency of highly reactive components



(HCl_Hydrogen Chloride, 10 μmol/mol)

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