



Infrared fluid component concentration meters

The ChemicAlyzer series

comprises various types of concentration meters that can meet the need for fluid concentration measurement under any conditions.

In-line model

This series provides high-accuracy, high-speed concentration measurement of cleaning fluids and etching solutions generally used in semiconductor and liquid crystal TV production processes.

	<p>ChemicAlyzer Pro-2 (Standard model)</p> <p>Although compact in design, with unified data processing and measurement units, this meter also has a keyboard and display.</p>
	<p>ChemicAlyzer ACEII (Ultra-high performance model)</p> <p>Various frontline technologies have been incorporated into the ChemicAlyzer series to achieve a measuring accuracy one digit higher than that of previous models. This type of ChemicAlyzer is ideal for applications requiring enhanced levels of measurement accuracy.</p>

Application specific chemical agents	Corresponding chemical agents
Misc. cleaning fluids	SC-1, SC-2, SPM, IPA
Etching solutions	HF, H ₃ PO ₄ , BHF, HF-HNO ₃ , HF-HNO ₃ -CH ₃ COOH
CMP fluids	H ₂ O ₂ in CMP, BTA in CMT
Liquid crystal etching solutions	H ₃ PO ₄ -HNO ₃ -CH ₃ COOH

Off-line wagon model

	<p style="text-align: center;">ChemicAlyzerII</p> <p>This meter is optimal for off-line measurement of chemical agent concentration change in various processes. Containing a built-in pump and valve, together with a ChemicAlyzer system, an essential functional unit of this meter, immersion of the tube end into the fluid is enough to measure the concentration.</p>
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Application specific chemical agents	Corresponding chemical agents
Misc. cleaning fluids	SC-1, SC-2, SPM, IPA
Etching solutions	HF, H ₃ PO ₄ , BHF, HF-HNO ₃ , HF-HNO ₃ -CH ₃ COOH
Liquid crystal etching solutions	H ₃ PO ₄ -HNO ₃ -CH ₃ COOH
High concentration alkaline fluids	NaOH, KOH, KOH-activator

Multiple container measurement/control model

ChemicAlyzer WORKS



A single concentration meter can continuously or intermittently measure the concentration of chemical agents in two or more containers.

This concentration meter houses a pump, valve and data processing unit in addition to the ChemicAlyzer system that is most suitable for the fluid to be measured. It moves the applicable fluid container sequentially and measures fluid concentration automatically. It can also be used for fluid concentration control.

Application specific chemical agents	Corresponding chemical agents
Misc. cleaning fluids	SC-1, SC-2, SPM, IPA
Etching solutions	HF, H ₃ PO ₄ , BHF, HF-HNO ₃ , HF-HNO ₃ -CH ₃ COOH
Organic parting agents	MEA-BDG-water-resist
Liquid crystal etching solutions	H ₃ PO ₄ -HNO ₃ -CH ₃ COOH
High concentration alkaline fluids	NaOH, KOH, KOH-activator

Hybrid model

ChemicAlyzer HB-20-A



This hybrid type meter combines infrared light with visible light or ultraviolet light to measure fluid concentration.

The combination of different types of light expands the range of measurable fluids, while retaining high measurement accuracy.

Application specific chemical agents	Corresponding chemical agents
Misc. cleaning fluids	Diluted SC-2
Etching solutions	HF-HNO-Si, HF-HNO ₃ -CH ₃ COOH-Si
Liquid crystal etching solutions	Copper-H ₂ O ₂ -acid
Organic parting agents	MEA-BDG-water-resist
Ozonation fluids	HF-ozone, H ₂ SO ₄ -ozone