

Etching solution
automatic controller

METIS - 7000

Ce, HNO₃

Features

- Metis-7000 Ce, HNO₃ is an etching solution automatic controller. It can analyze secondary ammonium cerium nitrate (Ce) and nitric acid (HNO₃) concentration which are active components of process solution used for etching process at production line of flat panels and replenish (output signals for replenishment) supply solution automatically.
- Can maintain high analysis accuracy by washing sensors every after analysis cycle ends.
- Can perform the optimum control of analysis and replenishment by simple parameter change.
- Easy to integrate into specification of production line.
- Contribute to cost down by reducing amounts of use of process solution and labor costs for analysis and replenishment.

Specification

■Function

Control items/ analysis method	1. Ce concentration / redox titration method (analysis accuracy $\pm 2.0\%$) 2. HNO ₃ concentration / neutralization titration (analysis accuracy $\pm 4.0\%$)
Replenishing	Controlling replenishing pumps from analysis result. ※Replenishing system needs mutual consultation about conditions at processing line.
Cycle time	About 20 minutes



Image picture

■Specification

Dimension / Weight (body)	W385 × H470 × D455(mm) / 30kg
Dimension / Weight (Footstool)	W465 × H930 × D425(mm) / 20kg
Power supply	AC100V ($\pm 10\%$)、60/50Hz、3P Plug+ Ground (separated ground line needed for equipped computer)
Power dissipation	200VA(max)

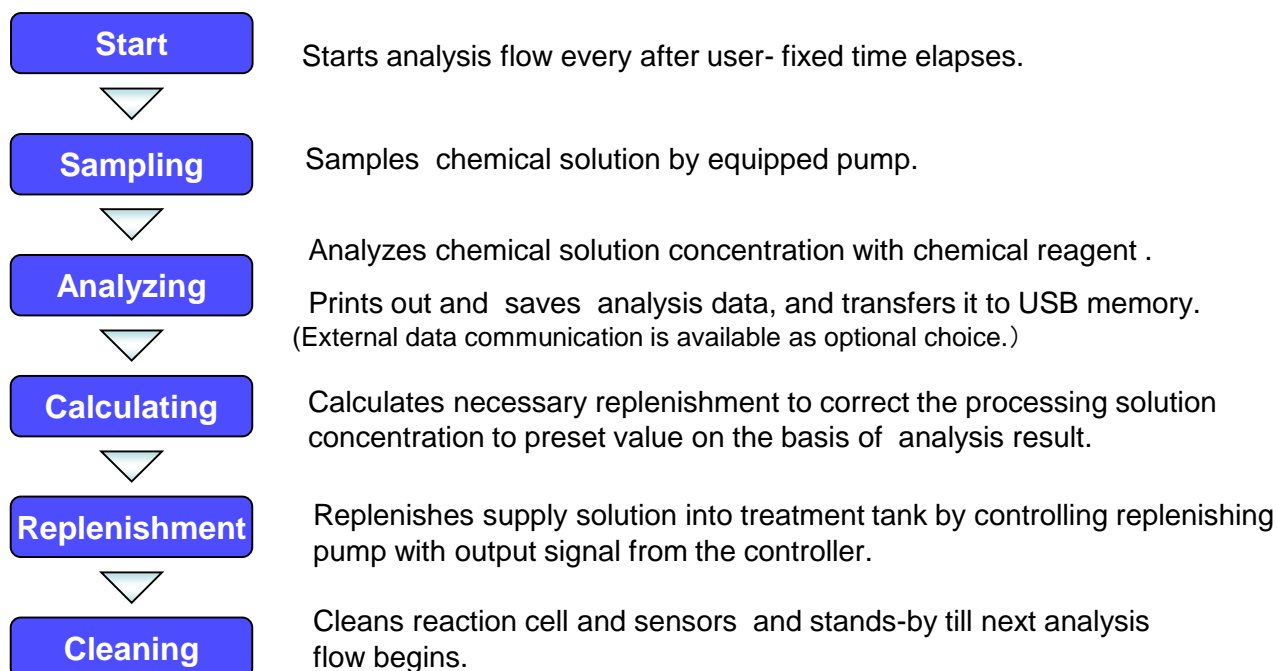
■Option (Below is just some example for your consideration. If you have requests, please feel free to contact us.)

Alarm	Patrol light, various signal towers.
Data communication	CC-Link、RS-232C、RS-485、4-20mA communication、external control, etc.

System summary



Automatically analysis flow



Note1) Please use our designated genuine parts or reagents for maintenance and running in order to prevent unexpected troubles.

Note2) Please be notified that we may change the specification or appearance of the controller for improvement without notice.

Note3) So as to maintain analysis accuracy, we recommend periodical maintenance or adjustment by our skilled engineer. (out of warranty)

For inquiry contact



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