

Blackening treatment solution
automatic controller

METIS-7000

NaClO₂, NaOH

Features

- Metis-7000 NaClO₂, NaOH is a blackening treatment solution automatic controller. It can analyze sodium chlorite (NaClO₂) and sodium hydroxide (NaOH) concentration which are active components of process solution used for blackening treatment process at production line of printed wiring boards 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. NaClO ₂ concentration / redox titration method (analysis accuracy ±2.0%) 2. NaOH concentration / neutralization titration (analysis accuracy ±2.0%) |
| Replenishing | Controlling replenishing pump 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 (±10%)、60/50Hz、3P Plug+ Ground (separated ground line needed for equipped computer) |
| Power dissipation | 200VA(max) |

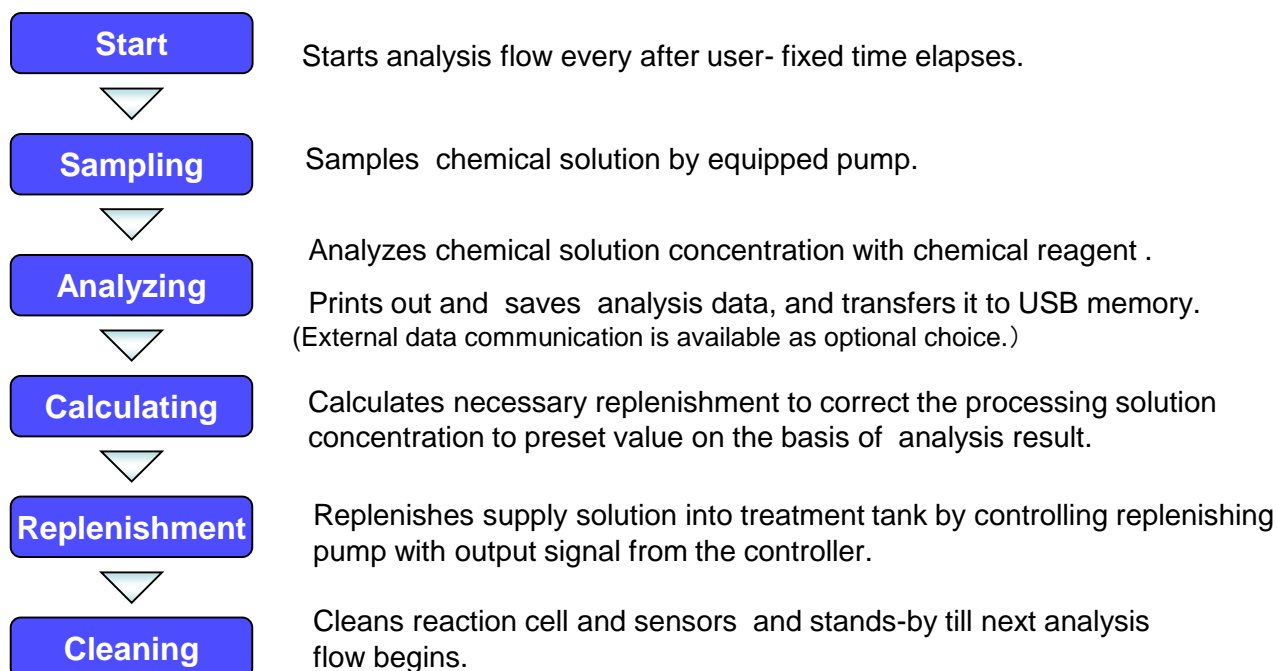
■Option (Below is just some example for your consideration. If you have requests, please feel free to contact us.)

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|--------------------|--|
| 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



ISHIHARA CHEMICAL CO., LTD.

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