ISHIHARA CHEMICAL

Roughening treatment solution automatic controller

H202, H2S04, CU

METIS-7000

Features

- Metis-7000 H2O2,H2SO4,Cu is a roughening treatment solution automatic controller. It can analyze hydro
 peroxide (H2O2) and sulfuric acid (H2SO4) concentration which are active components of process solution
 used for roughening process at production line of print wiring boards and replenish (output signals for
 replenishment) supply solution automatically.
- Can also analyze Cu concentration which are increased by processing and helps you to know the timing of renewing the process solution.
- 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 | H2SO4 concentration/ neutralization titration (analysis accuracy ±2.0%) H2O2 concentration / redox titration (analysis accuracy ±3.0%) Cu concentration / absorptiometry (analysis accuracy ±2.0%) *Needs consultation about analyzable concentration range . | |
|-----------------------------------|--|--|
| Replenishing | Controlling replenishing pump from analysis result. %Replenishing system needs mutual consultation about conditions at processing line. | |
| Cycle time | About 20-30 minutes %Cycle time depends on conditions of solution and production line, etc. | |

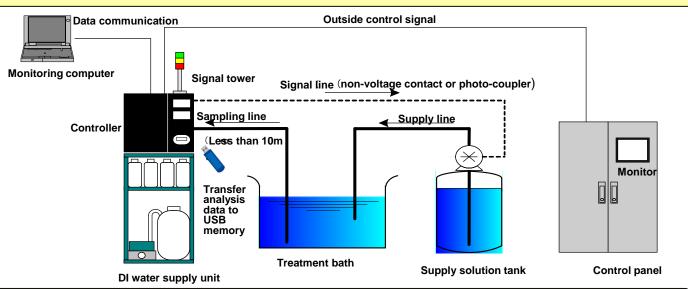


Image picture

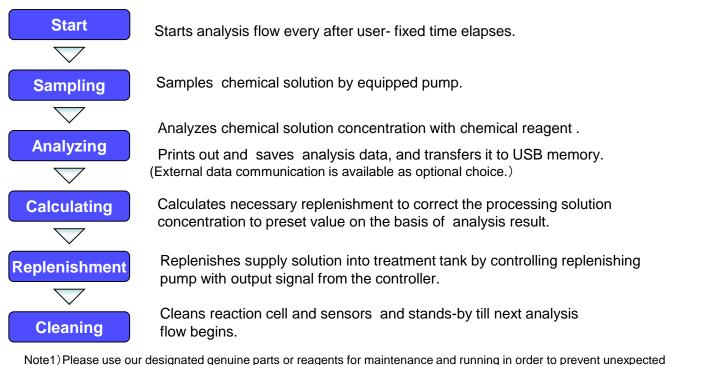
Specification

| Dimension / Weight | 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.) | | | |
| Alarm | Patrol light, various signal towers. | | |
| DI water supply unit | Automatically supplying DI water used for analysis. | | |
| Data communication | CC-Link、RS-232C、RS-485、4-20mA communication、external control, etc. | | |

System summary



Automatically analysis flow



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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