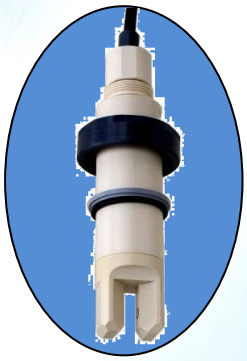
KRK

Probe type Detector

Easy cleaning
with brush



Probe type detector
(Attach to the In-line Holder)

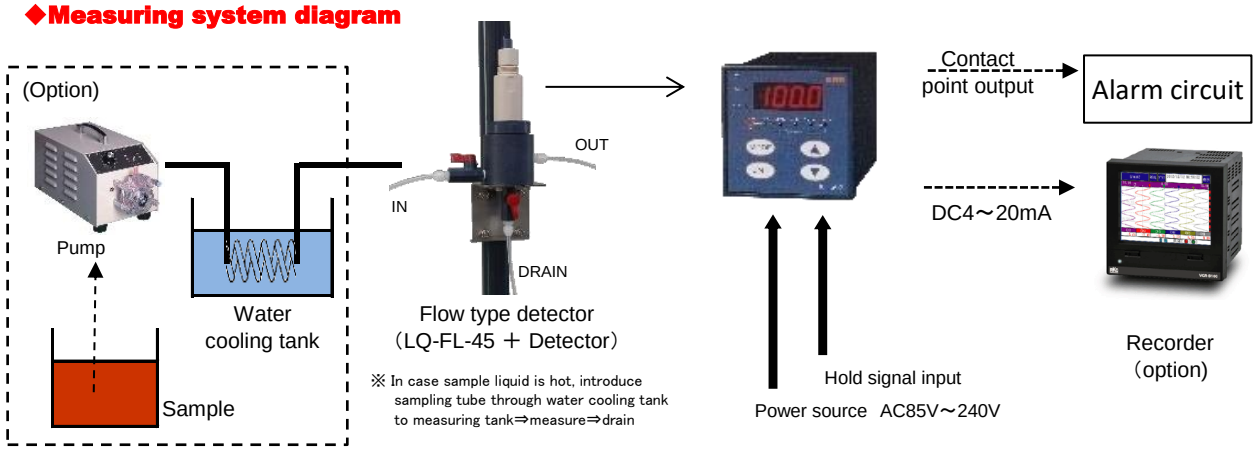
Flow type detector
(Model : CUD-3P-660-LQ + LQ-FL-45)

Copper Monitor

Cu-502

Probe Type Copper Monitor

◆Measuring system diagram



KASAHARA

Copper density measurement of copper sulfate plating solution, copper etching solution, etc.

Cu-502

Outline

This monitor gives you continuous density measurement of copper sulfate plating solution, copper etching solution, etc. and also recording of density signal, connection to control system and controlling copper density at the best one.Detector is probe type and easy to attach and detach to and from flow type holder. Convenient copper density measuring sensor system for calibration and maintenance.

Features

① Probe type detector of copper density

Easy calibration and maintenance

② Detector of copper density with flow type holder

Easy to attach and detach

③ Easy cleaning of optical window with attached brush

Easy cleaning of stains on the window

④ Possible to measure density of various liquid

Possible to measure colority, density and TSS of various liquid

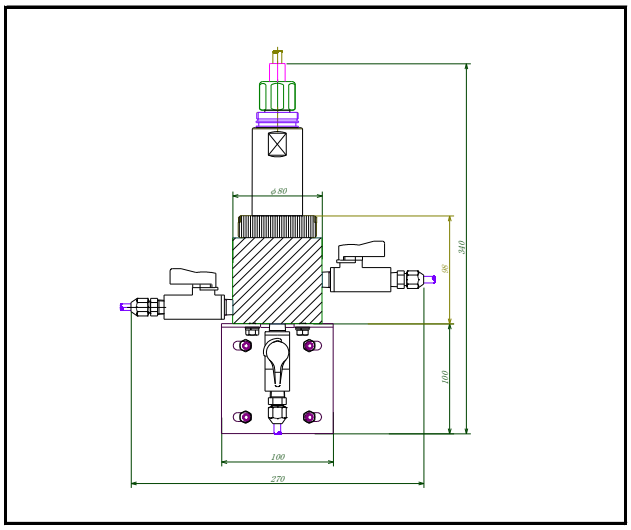
⑤ High sensitive measurement of copper density

Copper density measurement of copper sulfate plating solution, copper etching solution, etc.

⑥ Possible to hold output of transmission signal

Possible to hold output signal by non voltage signal input from outside

Dimensions of flow type detector



Specifications

◇Converter

Product Name	Copper density monitor
Model	CU-502
Measuring unit	Copper density : 0.0～80.0g/L （Cu）Standard : 0.00～19.99g/L（Cu）Low density : optional Copper sulfate density : 0～300g/L （CuSO4）optional
Accuracy	Within ±3%（FS）
Ambient condition	0～40℃ 85%RH or less
Transmission output	4～20mA DC(isolation type) load resistance 250～500Ω Manual operation Cu : 0~20/0~50/0~80g/L Cu (Standard) Cu : 0~5/0~10/0~19.99g/L Cu (Low density : Optional) $CuSO_4$: 0~100/0~200/0~300g/L $CuSO_4$ (Optional)
Contact output	High, Low each a, b point (non voltage) Contact capacity: AC200V 1A(non resistance) or less
Hold output	Hold transmission output and contact point output by inputting of non voltage contact signal from outside.
Span calibration	With copper standard solution
Temperature compensation	Automatic temperature control system by semi conductor temperature sensor
Power voltage	AC85～240V 50/60Hz
Consuming electricity	About 20VA
Dimensions	96(W)×96(H)×163(D)
Panel cut	92^{+1}_{-0} ×92^{+1}_{-0} mm
Weight	Approx.1.3 kg
Standard components	Cleaning brush, probe type detector, flow type holder, calibration container, ϕ4×ϕ6 PP tube 5m, panel fittings

◇ Copper density detector

Measuring theory	Light absorbance method
Model (optional)	Standard :CUD-3P-660-LQ（FS：0～199.9g/L） Low density :CUD-10P-880-LQ（FS：0～19.99g/L）
Flow type holder	Model :LQ-FL-45
Cable length	Standard 6m
Material	Detector : PPS Flow type holder : PPS（or PVC）
Connection	φ4×φ6 PP tube
Measuring condition	Temperature of sample water: 40℃ or less ※In case sample liquid is more than 40℃, introduce sample water by putting sampling tube through water cooling tank to measuring tank. Pressure : Less than 0.01MPa No existence with : foam, organic solvent, SS materials, etc.
Dimensions of probe type detector	φ45×246（L）

⚠ If foam or SS exists, use the equipment for removing foam and SS in advance.

KRK 笠原理化工業株式会社

本社 埼玉県久喜市吉羽1丁目10番地10 〒346-0014

TEL:0480-23-1781（代） FAX:0480-23-2749

email：krk@krkjpn.co.jp

URL http://www.krkjpn.co.jp

KASAHARA CHEMICAL INSTRUMENTS CORP.

1-10-10 Yoshiba, Kuki-City, Saitama, Japan 〒346-0014