

Nickel (Ni)

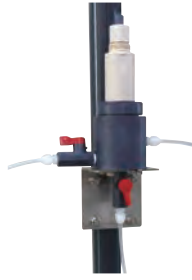
31 Ni-502

Nickel Monitor

Nickel Monitor for Nickel Plating Process.



In-line type Detector
NCD-3F/10F



probe-type Detector
W/Flow type holder
NCD-3P/10P-LQ
+LQ-FL-45



Probe-type Detector
Cleaning by brush

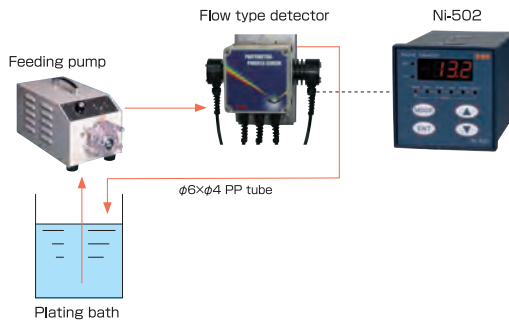


Measuring Theory

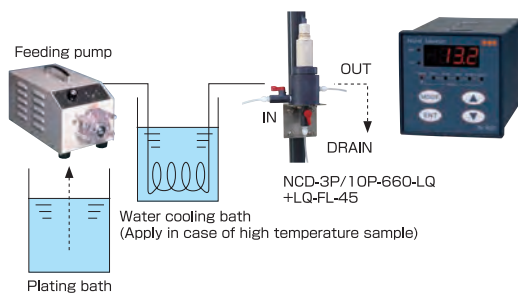
The signal in proportion to nickel density from the density sensor which is composed of LED as light source, a photo sensor as a light-receiver, and an optical window, is calculated and amplified by the converter and digitally displayed as nickel density. In order to prevent LED deterioration and influence on temperature change, this sensor is equipped with automatic temperature compensation system and measures nickel density of the nickel solution correctly.

Measuring Diagram (Flow type)

A: Flow type system① (Recommended system)



B: Flow type system② (Probe type detector)



Meter

Product name	Nickel Monitor	
Display	LED 3·1/2 digits Red	
Measuring range	① For High density : 0.0~199.9g/ℓ ② For Low density : 0.00~19.99g/ℓ	
Resolution	① For High density : 0.1 g/ℓ ② For Low density : 0.01 g/ℓ	
Accuracy	Within ±2% of FS	
Transmission output	DC4~20mA (isolated type) 3 range	
	FS: 0~200g/ℓ	FS: 0~20g/ℓ
	Range 1 0~50g/ℓ	0~5g/ℓ
	Range 2 0~100g/ℓ	0~10g/ℓ
	Range 3 0~200g/ℓ	0~20g/ℓ
Span calibration	with Nickel Standard Solution	
Contact output	High & Low limit each a, b contact point (no-voltage)	
Hold output	Transmit output and contact output are held by inputting non voltage contact signals from outside.	
Power supply	AC85~240V free input 50/60Hz	

Detector

Model	High density (FS: 0~200g/ℓ)	Low density (FS: 0~20g/ℓ)
	① probe type ② In line type	NCD-3P-660-LQ NCD-3F-660
	NCD-10P-400-LQ	NCD-10F-400
Measuring method	Light absorbance method	
Cable length	6m standard	
Material of liquid junction	① high density probe type: PPS, PVC, Quartz, FKM ② low density probe type: PPS, Quartz, PVC, FKM ③ Flow type: PPS, Quartz, PP, FKM	
Condition	Sample temperature : 0~40°C or less (probe type) 0~60°C or less (in-line type)	
Fixing	50A fixing pole or fix on the wall (in-line type)	