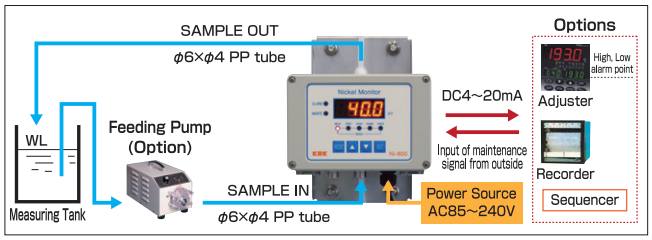
# 12 Nickel Density Meter

(0～200 g/ℓ Ni measuring standard)

# Ni-800

This is a In-Line type Nickel Density Meter which continuously measures Nickel density of nickel plating process of electronic parts and controls density.
Density signal can be appropriately controlled by connecting to optional Recorder, Controller, Sequencer, etc.

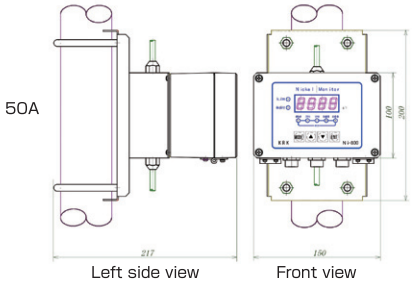

## Measuring system




## Common Features

1. **Detector/Converter Unified Type In-line Density Meter**
   Easy to install, calibrate and maintain
2. **During operation, measuring value display can be OFF**
   Measured value can be controlled by the remotely-installed recorder and adjuster
3. **3-range type transmittal output 4～20mA DC**
   Recording range and control range of measured value is changeable
4. **Excellent chemical-resistant, heat-resistant Detector**
   Main material are Safire, PPS, PP, etc.
5. **Easy, and 4-Key Operation is OK**
   4-keys : MODE、▲、▼、ENT
   Function display lamp : MEAS→ZERO→SPAN→RANGE→CHECK→…

## Outer Dimensions




## Meter Specifications

### Meter

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|---|---|
| Product name | Nickel Density Meter of Nickel plating |
| Display | LED red 4 digits |
| Model (instructed) | Ni-800 for High Density Measurement<br>Ni-800L for Low Density Measurement |
| Measuring range | Ni-800 (High) : 0.0～200.0 g/ℓ Ni<br>Ni-800L (Low) : 0.00～20.00 g/ℓ Ni |
| Resolution | 0.1 g/ℓ (for High Density Measurement)<br>0.01 g/ℓ (for Low Density Measurement) |
| Transmittal output | DC 4～20mA (isolation type), load resistance 250～500Ω |

| | Ni (high ) FS : 200 g/ℓ | Ni (low) FS : 20 g/ℓ |
|---|---|---|
| Range 1 | 0～200 | 0～20 |
| Range 2 | 0～100 | 0～10 |
| Range 3 | 0～50 | 0～5 |

※Transmittal output is instructed as RS-232C or 4～20mA
※Transmittal output cable is 5m standard with Y terminal
※RC-232C output, Transmittal cable with plug and connector (max.10m) optional

| | |
|---|---|
| Accuracy | Within ± 2% of F.S |
| Hold output | DC output 4～20mA is held by inputting no-voltage contact point signal from outside |
| Power voltage | AC100/110V 50/60 Hz, Cable 5m, with plug, standard<br>※In case of 200～240V or cable extension, instruction in advance is appreciated because Y terminal treatment is applied without 3p plug |

### Ni Detector Specifications

| | |
|---|---|
| Model | High density : NCD-3C<br>Low density : NCD-10C |
| Method | Light Absorbance Method, In-line type measurement |
| Material | Automatic temperature compensation by semi-conductor |
| Sample condition | Sample pressure : 0.2 MPa or less<br>Sample temperature : 80℃ or less |
| Pyping | PP tube(ϕ6× ϕ4) |
| Installation | Pole or fix on the wall (SUS-304 fixing board is standard) |
| Std. component | Detector and indicating converter are unified.<br>Pole fixing board (SUS-304), PP tube (3m),<br>Power cable 5m, Current output signal cable 5m,<br>Hold signal cable 5m, Handling Instruction,<br>Written Guarantee |

| | |
|---|---|
| Optional component | RS232C output, exclusive plug,<br>cable with connector (max. 10m),<br>Standard solution for calibration, relay box,<br>extension cable, Feeding pump<br>for supplying liquid (Tell us power source and frequency) |