RION

ECO GREEN

## Monitors 0.04 µm particle contamination in pure water
## Integrated unit combines sensor, controller, flow meter, and data storage

Liquid-Borne Particle Counter

# KL-30AX

- Lowest measurable particle size 0.04 µm
- Built-in leakage sensor triggers alarm output when internal leak detected
- High pressure up to 500 kPa (gauge pressure) applicable
- Equipped with D/A converter (4 - 20 mA) and alarm output contacts (standard)
- Printer built-in, CompactFlash card available (option)

## Specifications [KL-30AX]

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|---|---|
| Optical system | Light-scattering method |
| Light source | Diode pumped solid state laser (wavelength 532 nm, rated output 500 mW ) |
| Laser product class | Class 1, IEC 60825-1 |
| Light detector | Silicon photodiode |
| Measurable sample types | Pure water (for purging, other fluids which do not corrode the fluid contact materials may be introduced) |
| Calibration | Polystyrene latex (PSL) particles (refractive index 1.6) in pure water |
| Size range | |
| 4 channels (factory default) | ≥0.04 µm, ≥0.08 µm, ≥0.1 µm, ≥0.15 µm |
| User selectable channels | 2 to 10 channels |
| Setting range | 0.04 µm to 0.15 µm |
| Sampling flow rate | Flow rate 20 mL/min and purge flow rate 0.1 to 1 L/min combined (Purge flow rate will differ depending on sample fluid pressure) |
| Sample inlet/outlet | 4 x 6 (dia). or 3.96 x 6.35 (dia). flared joint for tube |
| Sample pressure range | 100 to 500 kPa (gauge pressure) |
| Sample temperature range | 15 °C to 35 °C (no condensation in flow system) |
| Materials of parts exposed to sample | Synthetic quartz, fluorocarbon rubber, fluoroplastic, PVC, Pyrex glass, SUS304/316, POM |

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| Counting efficiency | 6 % |
| Effective flow rate | 1.2 mL/min |
| Maximum particle number concentration | 15 000 particles/mL (coincidence loss 10 %) |
| Purge air port | Rc 1/8 (1/8 PT female)<br>For introducing purging gas to maintain clean conditions and prevent condensation |
| Environmental conditions for operation | 15 °C to 35 °C, less than 80 %RH (no condensation) |
| Power | 130 VA, 100 to 240 V AC, 50/60 Hz |
| Dimensions and weight | 230 (H) x 385 (W) x 570 (D) mm (excluding protruding parts), approx. 24.8 kg |
| Accessories | Power cord (2.5 m) x 1, Thermal paper TP-08 x 2 rolls, CF Dummy card x 1 |

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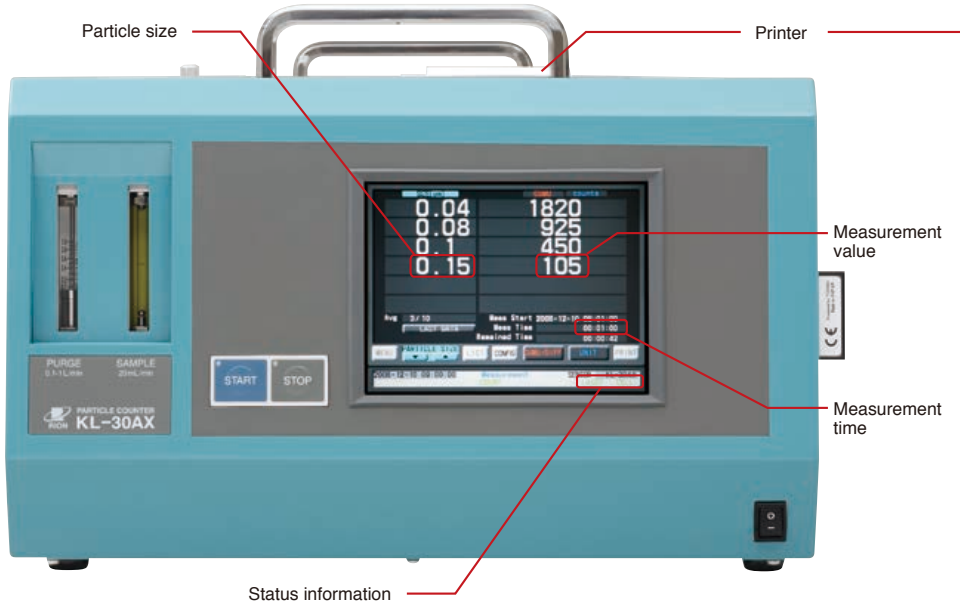
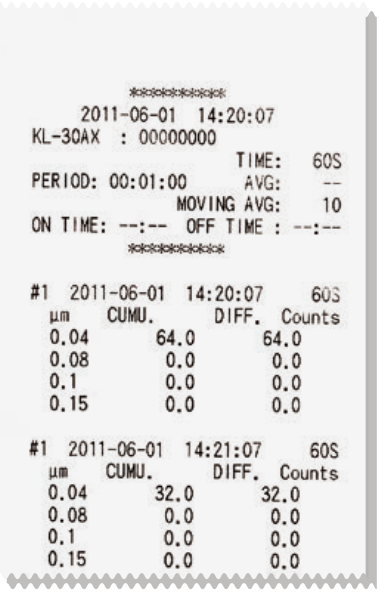
| Factory option | Purge air unit (for internal installation) KL-30-S21 |
| Options | Communication cable CC-61A/63A<br>Thermal paper TP-08, Lint-free thermal paper TP-10<br>Sampling tube 5 m (4 x 6 dia., both ends flared) KL-30-S16<br>Sampling tube 10 m (4 x 6 dia., both ends flared) KL-30-S15<br>CompactFlash card MC-25CF2 (256 MB) |



Print sample of internal printer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Distributed by:


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1106-3 1904.P.D