

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



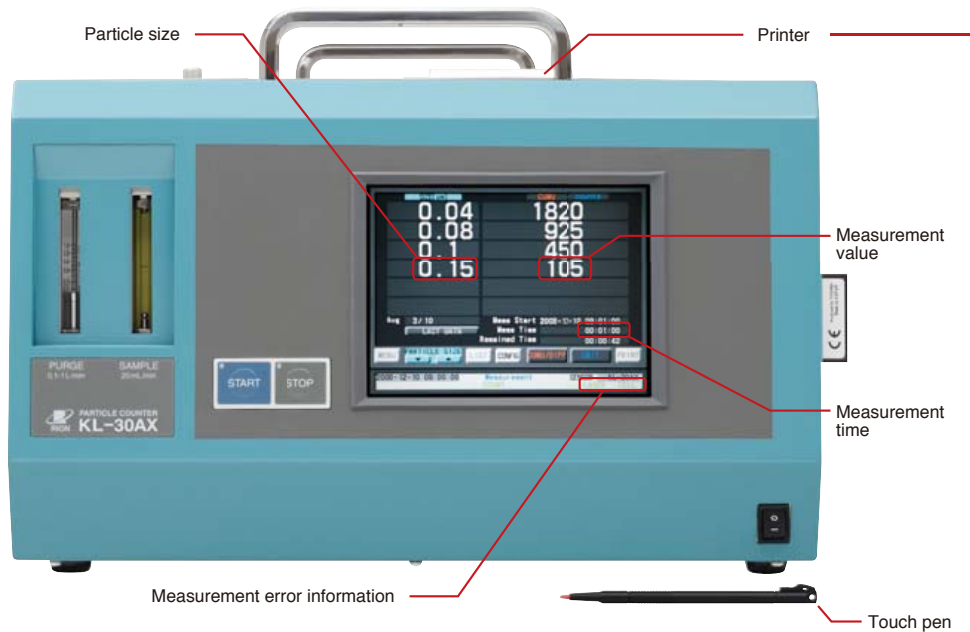
Liquid-Borne Particle Counter **KL-30AX**

- 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]

| | |
|--------------------------------------|---|
| 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 |

| | |
|--|---|
| 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) 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 |
| Factory option | Purge air unit (for internal installation) KL-30-S21 |
| Options | Communication cable CC-61A Thermal paper TP-08, Clean thermal paper TP-10 Sampling tube 5 m (4 x 6 dia., both ends flared) KL-30-S16 Sampling tube 10 m (4 x 6 dia., both ends flared) KL-30-S15 CompactFlash card MC-12CF1 (128 MB)/25CF1 (256 MB) |



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*****
2011-06-01 14:20:07
KL-30AX : 00000000
PERIOD: 00:01:00      TIME: 60S
                        AVG:  --
                        MOVING AVG: 10
ON TIME: --:-- OFF TIME: --:--
*****

#1 2011-06-01 14:20:07 60S
  μm  CUMU.  DIFF.  Counts
0.04      64.0    64.0
0.08       0.0     0.0
0.1        0.0     0.0
0.15       0.0     0.0

#1 2011-06-01 14:21:07 60S
  μm  CUMU.  DIFF.  Counts
0.04     32.0    32.0
0.08       0.0     0.0
0.1        0.0     0.0
0.15       0.0     0.0

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Print sample of internal printer

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* Specifications subject to change without notice.



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