



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



Liquid-Borne Particle Counter

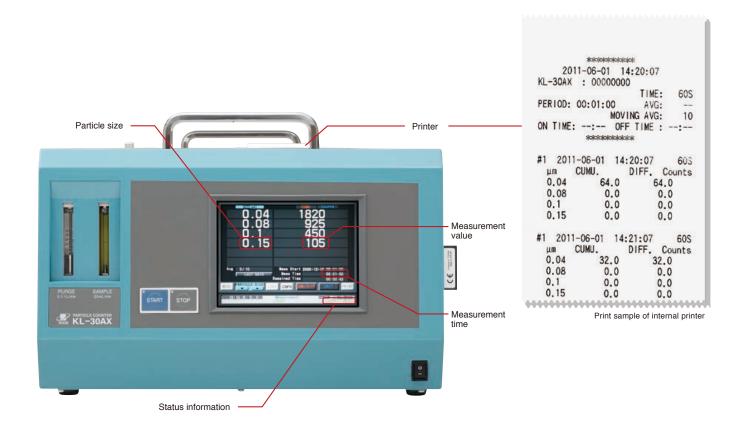
## KL-30AX

- $\blacksquare$  Lowest measurable particle size 0.04  $\mu m$
- 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	Synthetic quartz, fluorocarbon rubber, fluoroplastic,
to sample	PVC, Pyrex glass, SUS304/316, POM

Counting efficiency	6 %
Effective flow rate	1.2 mL/min
Maximum particle number	15 000 particles/mL (coincidence loss 10 %)
concentration	
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/63A
	Thermal paper TP-08, Lint-free 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-25CF2 (256 MB)





<sup>\*</sup> Specifications subject to change without notice.



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