RION

Monitors 0.05 µm particle contamination in pure water
Integrated unit combines sensor, controller, flow meter, and data storage

Liquid-Borne Particle Counter

KL-30A

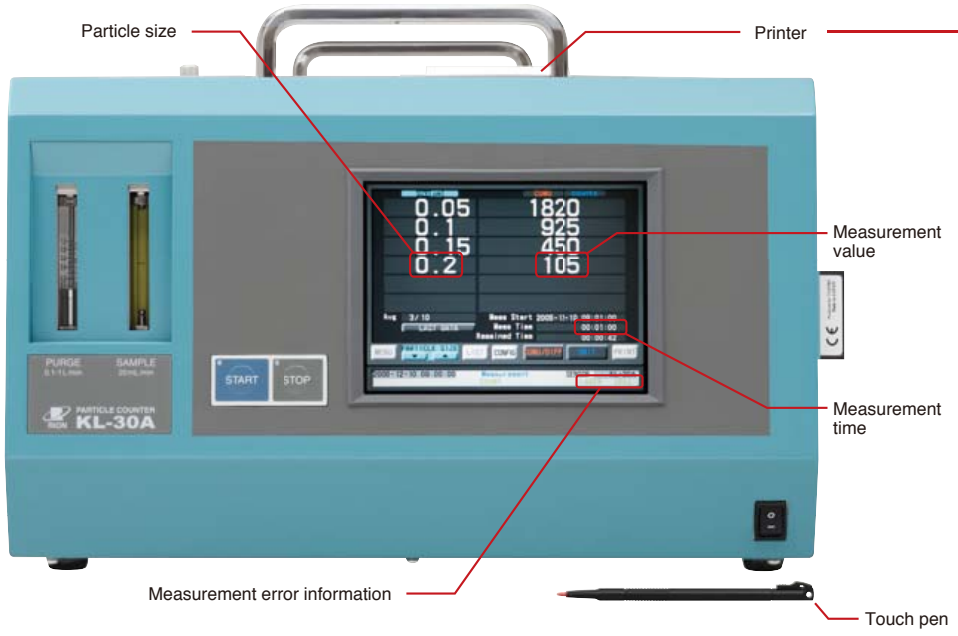
- Lowest measurable particle size 0.05 µm and 20 times larger effective flow rate than former model
- Built-in leakage sensor triggers alarm output when internal leak detected
- High pressure up to 500 kPa (gauge pressure) applicable
- Equipped with D/A converter (4 - 20 mA) and alarm output contacts (standard)
- Printer built-in, CompactFlash card available (option)

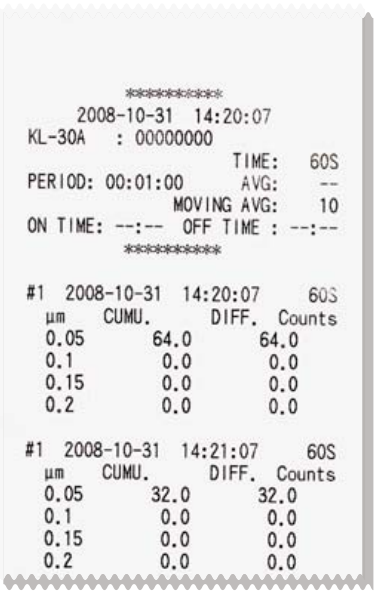
Specifications [KL-30A]

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)	≥0.05 µm, ≥0.1 µm, ≥0.15 µm, ≥0.2 µm
User selectable channels	2 to 10 channels
Setting range	0.05 µm to 0.2 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	10 % ±3 %

Effective flow rate	2 ±0.6 mL/min
Size resolution	10 % or less (PSL particles in 0.15 µm range)
Maximum particle number concentration	7 000 particles/mL (coincidence loss 5 %), 15 000 particles/mL (coincidence loss 10 %)
False count rate	Less than 0.05 particles/mL average
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)





Print sample of internal printer

Distributed by:

RION CO., LTD.
http://www.rion.co.jp/english/

3-20-41, Higashimotomachi, Kokubunji,
Tokyo 185-8533,Japan
Tel: +81-423-59-7878, Fax: +81-423-59-7458

This leaflet is printed with environmentally friendly soy ink on recycled paper.
0811-1 0906.P.T