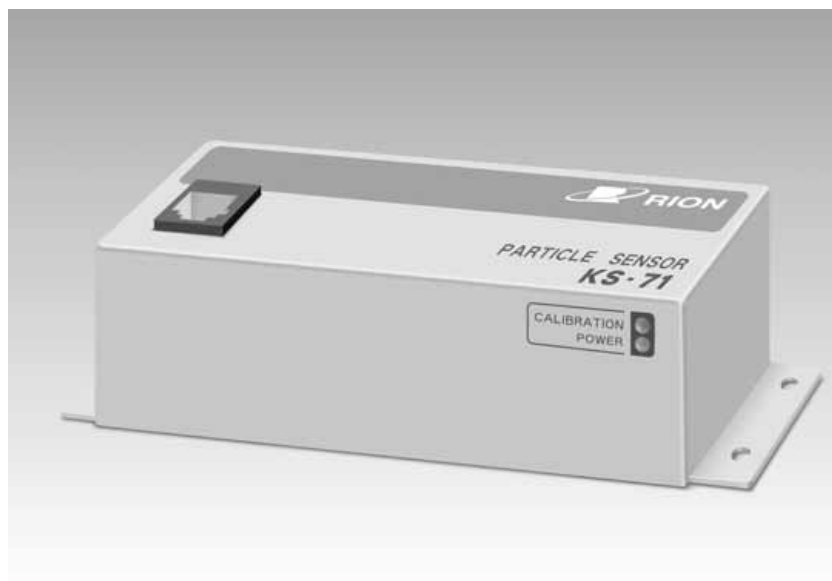




# *CMP* *Particle Sensor* **KS-71**

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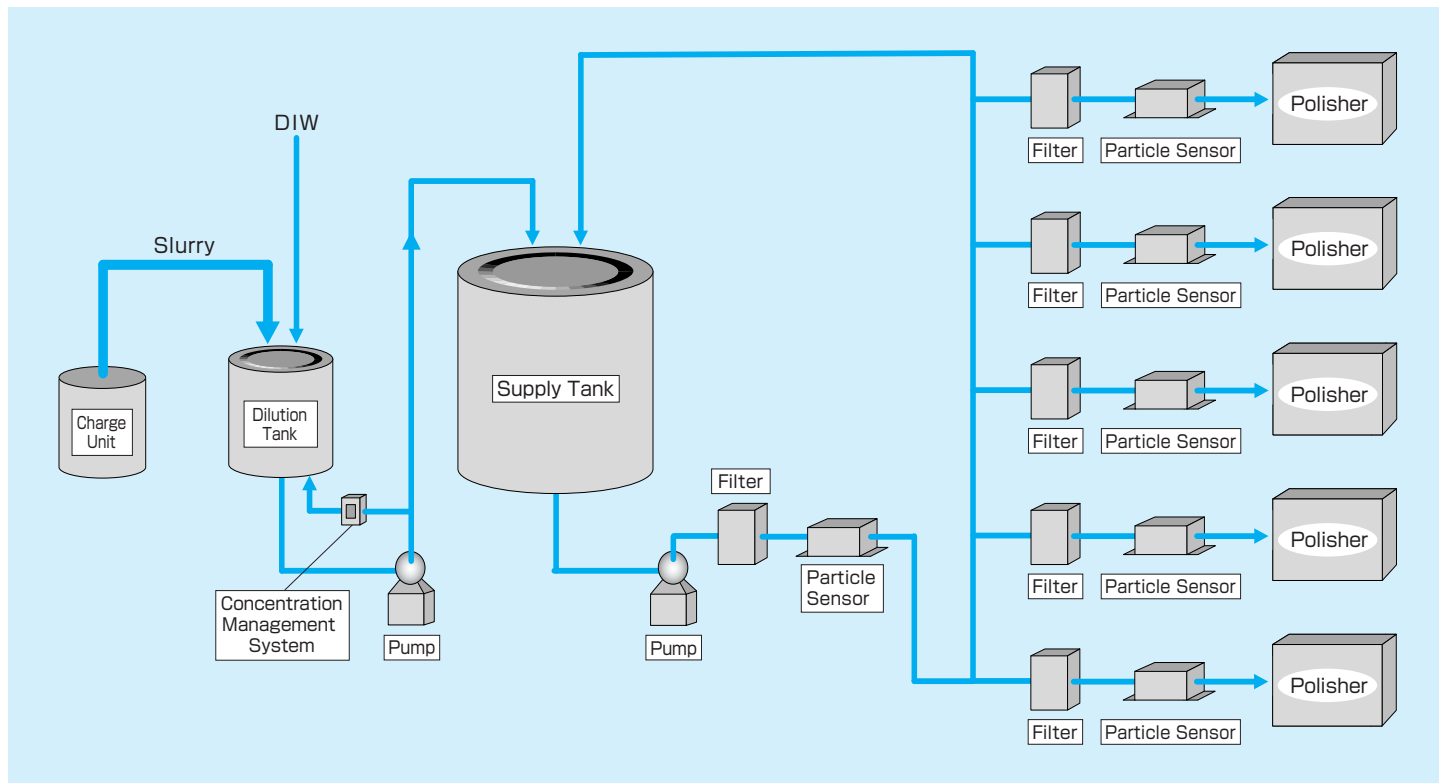
## **CMP Particle Sensor for Real-time Monitoring**



- **No Dilutions Required**
- **IN-LINE Sensor**
- **2-channels 3 & 5  $\mu\text{m}$**
- **Low Cost**
- **Full Computer Integration**
- **Small & Compact**
- **Monitor Critical Areas**
- **Remove Large Particles**
- **Reduce Scratches**
- **Improve Filtration Efficiency**
- **Improve Yields**



### Flexible Installation Scheme



### Specifications

<b>Optical method</b>	Light extinction	<b>Allowable sample fluid pressure</b>	300 kPa or less (gauge pressure)
<b>Light source</b>	Laser diode (Wavelength: 780 nm, Rated output: 3 mW)	<b>Ambient conditions for use</b>	15 to 35 °C, 85 % RH or less, (no condensation on cell)
<b>Laser product classification</b>	Class 1, IEC 60825-1 (2001)	<b>Ambient conditions for storage</b>	-10 to 50 °C, 90 % RH or less, (no condensation and no freezing in internal piping)
<b>Light detector</b>	Photodiode	<b>Warm-up time</b>	About 10 minutes
<b>Materials exposed to sample fluid</b>	PFA, fused silica	<b>Connector</b>	RJ-45 (for connection to controller)
<b>Measurable size range</b>	3 to 25 μm	<b>Output signal</b>	Balanced pulse signal
<b>Measurable size channels</b>	2 channels (≥ 3 μm and ≥ 5 μm)	<b>Power requirements</b>	9 to 28 V DC (via external power supply unit)
<b>Counting efficiency</b>	50 ± 10 % (comparison of particle counts between the unit and the reference instrument when measuring approx. 5 μm diameter PSL particles at the range setting ≥ 3 μm.)	<b>Power consumption</b>	Approx. 3.0 VA
<b>Sample flow rate</b>	60 mL/min	<b>Dimensions</b>	135 (W) × 97 (H) × 61 (D) mm (max.) 107 (W) × 51 (H) × 58 (D) mm (without protruding parts)
<b>Maximum particle concentration</b>	62,000 particles/min (coincidence loss 5 % or less)	<b>Weight</b>	Approx. 400 g
<b>Sample fluid temperature range</b>	15 to 35 °C (no condensation on cell)		

Specifications subject to change without notice.



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