

# Online Particle Counter NP 500V



This is also highly sensitive laser particle counter (turbidimeter) for clean water, most suitable as the counter measurement against the provisional guide line for clean water by Ministry of Health, Labor and Welfare. It is used as an on-line system, and has a strong effect on the maintenance and management for a filter basin.

Turbidimeter used exclusively for low turbidity measurement based on the particle counting method.

## Features

1. Both particle counts and turbidity can be measured simultaneously.
2. Cryptosporidium and giardia are sorted to be the same particle size, so variation in particle size can be judged easily at a glance.
3. Deforming bath is equipped with this model for the protection from measuring error caused by air bubble.
4. A long life semi-conductor laser is used as a light source.
5. Data analysis and filing software will be available in option.
6. Contamination detector is equipped with this model.

## Specifications

<b>Dimensions</b>	Main unit : W 230mm x D 330mm x H 290mm Stand : W 400mm x D 400mm x H 1,205mm	<b>Measuring Particle size</b>	6 channels for 0.5 $\mu$ m to 1 $\mu$ m, 1 $\mu$ m to 3 $\mu$ m, 3 $\mu$ m to 7 $\mu$ m, 7 $\mu$ m to 12 $\mu$ m, 12 $\mu$ m to 15 $\mu$ m, 15 $\mu$ m or more
<b>Weight</b>	Approx. 30kg	<b>Interface</b>	<ul style="list-style-type: none"> <li>• RS-232C : 1 channel</li> <li>• Centronics : 1 channel</li> <li>• DC 4-20mA : 4 channels</li> </ul> (3 channels for particle data, 1 channel for turbidity data, Resolution is selective)
<b>Power supply</b>	100V AC, 50 / 60Hz	<b>Alarm</b>	Upper limits of particle counts and turbidity are arbitrarily selective, with a buzzer sound and 3 channels of relay contact output when alarm is made. <ul style="list-style-type: none"> <li>• Relay contact output : Particle counts, turbidity and equipment error</li> <li>• Relay contact output time: To be retained unit next measurement result</li> <li>• Relay contact capacity : Load resistance at 125V AC, 0.5A or 30V DC, 2A</li> </ul>
<b>Power consumption</b>	100VA		
<b>Light source</b>	Semi-conductor laser		
<b>Measuring items</b>	Particle counts , turbidity		
<b>Measuring range</b>	<ul style="list-style-type: none"> <li>• Particle counts : 0 to 10<sup>6</sup>/ 50ml</li> <li>• Turbidity : 0.0000° to 2.0° (NTU unit)</li> </ul>		
<b>Measuring method</b>	Lateral scattering method		
<b>Flow volume for measurement</b>	50 ml / min.		
<b>Measuring time</b>	Elapsed time for particle data integration 6 sec. to 9 min. 59 sec. to be arbitrarily set (possible without interval)		

※Turbidity is to be calibrated using polystyrene standard liquid prior to shipment from our factory.