

*Measuring principle:

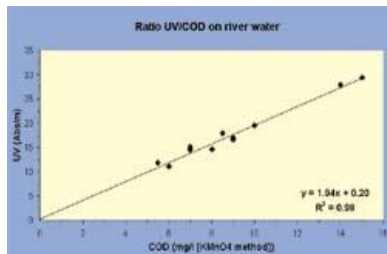
Based on unsaturated organic molecules in the 254 nm wavelength get ultraviolet absorption reaction, then use Beer - Lambert conversion law; $[C] = k \log(I_{in} / I_{out})$

Which:[C]:Sample concentration; k:UV absorption and BOD linear correlation coefficient ; I in:Incidence light intensity; I out:Transmission light intensity

*Reliability of application:

The chart (1) shows that the typical linear relationship between the river water (water quality ingredients more stable) UV and BOD value.Even in the water quality of the more complex cases, there is a typical linear relationship between the river water (water quality ingredients more stable) UV and BOD value.

The chart (2) shows that when the wastewater is complex, the typical relationship between the UV absorbance



*Technical Data & Specification

Range	0-60mg/l	0-250mg/l	0-600mg/l	0-1500mg/l	0-5000mg/l
Accuracy	10%	10%	10%	10%	10%
Repeatability	±0.01mg/l	±0.5 mg/l	± 1.0 mg/l	± 2.0 mg/l	± 5.0 mg/l
Zero drift	5%				
Full range drift	10%				
Measuring time	10sec or set up by requirement				
Measuring cycle	Set up by requirement				
Temperature	Ambient temperature : 0-50 °C Sample temperature: 0-80 °C, can not be frozen				
Alarm signal output	4 relay signal output, with a sluggish and delayed function				
Analog output	4-20mA isolation output 12-Bit resolution, 500Ω Great resistance (standard.)				
Communication	MRS232-No special software, and Excel compatible (standard) MRS485-MODBUS(optional)				
Data Storage	Main machine a month (one hour ,one day, five days ,one month) Download time is not limited MR232				
Power	110-130V OR 220-240V/30VA/50-60Hz - inner voltage selector,anti-high-voltage lightning. 12V-15V DC,3A				
Peristaltic pump	Optional				