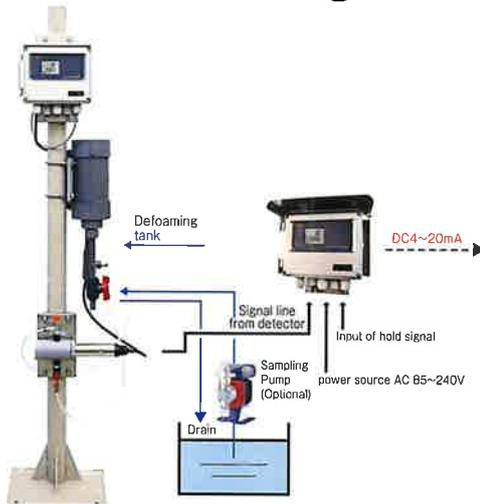


# UV/COD

## 01 UV-700W

## UV/COD Monitor

(UV/LED Organic Pollution Monitor, Hg<sup>+</sup> Free)

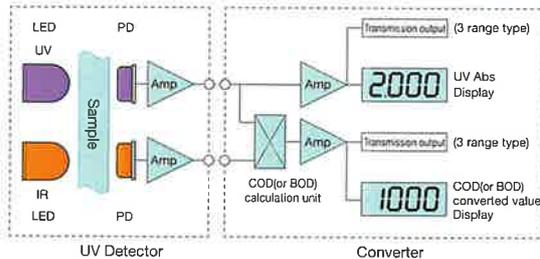


Displays both UV absorbance and COD converted value

### Outline

- 2 optical path, 2 wave length measurement to correct turbidity influence

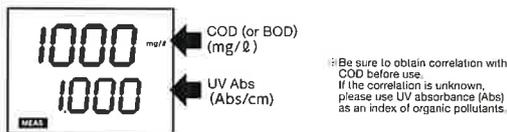
Automatically calculate UV Abs signal-Turbidity signal (IR) system



※IR = Infrared rays (near infrared rays), turbidity measuring wave length

### One monitor displays both UV absorbance and COD or BOD converted value

In order to display UV absorbance as COD, input relation between UV Abs by UV-700W and manually analyzed COD value in advance, then measure.



### Detector installation example

Immersive type MDL : UVD-LH

Measurement by fixing UV detector to immersive type holder sideways and immerse with metal fittings in the measuring tank



### Attach and detach of UV Detector and Maintenance



### Meter

Product name	UV Type COD Monitor (UV Organic Pollution Monitor)										
Model	Ⓐ Standard Type:UV-700W-10 (Cell Path 10mm) Ⓑ High density type:UV-700W-5 (Cell Path 5mm)										
Display	LCD 4 digits, 2 steps Upper:converted COD value(mg/l), Lower:UV Abs										
Measuring system	Ⓐ UV-700W-10:0.000~2.000Abs/cm (UV) 0~400mg/l (Converted COD Cr) Ⓑ UV-700W-5: 0.000~4.000 Abs/cm (UV) 0~1000mg/l (Converted COD Cr) ※Depending upon the water quality, Conversion measurement can not be made below 1000mg/l(or 400mg/l).										
Transmission output	DC4~20mA, 2 system, 3 range switch <table border="1"> <thead> <tr> <th></th> <th>UV Abs(Abs/cm)</th> <th>Converted COD value(Cr)</th> </tr> </thead> <tbody> <tr> <td>Ⓐ UV-700W-10</td> <td>0~2Abs/cm</td> <td>0~ 400mg/l Cr(MAX)</td> </tr> <tr> <td>Ⓑ UV-700W-5</td> <td>0~4Abs/cm</td> <td>0~1000mg/l Cr(MAX)</td> </tr> </tbody> </table>			UV Abs(Abs/cm)	Converted COD value(Cr)	Ⓐ UV-700W-10	0~2Abs/cm	0~ 400mg/l Cr(MAX)	Ⓑ UV-700W-5	0~4Abs/cm	0~1000mg/l Cr(MAX)
	UV Abs(Abs/cm)	Converted COD value(Cr)									
Ⓐ UV-700W-10	0~2Abs/cm	0~ 400mg/l Cr(MAX)									
Ⓑ UV-700W-5	0~4Abs/cm	0~1000mg/l Cr(MAX)									
Conversion	Converting coefficient y=a+bx										
Repeatability	Within ±2%(F.S.)										
Stability	Within ±2%(F.S.)										
Resolution	UV:0.001Abs/cm, COD:1mg/l UV-700W-5 UV:0.001Abs/cm, COD:0.1mg/l UV-700W-10										
Cleaning method	Automatic cleaning with a wiper Cleaning cycle:once an hour (possible to set 30min~12hrs) Frequency of cleaning:1(possible to set 1~5 times)										
Power voltage	AC85~240V										

### Detector

Product name	Probe type UV LED detector
Model	Ⓐ Standard type UVD-255-10(optical Cell Path : 10mm) Ⓑ High Density type UVD-255-5 (optical Cell Path : 5mm)
Measuring wavelength	UV:255nm, IR:880nm
Measuring system	2 optical path, 2 wave length light absorbance
Flow type measuring system ①	Flow type holder : UVD-FLH2 + Defoaming tank : VU-100 +Detector : UVD-255
Flow type measuring system ②	Flow type holder : UVD-FLH2 + Detector : UVD-255
Immersive type measuring system	Immersive type holder : UVD-LH + Detector : UVD-255 ※Immersion fittings, pipes, hanging chains are optional
Material	Detector : SUS-316, sapphire (or quartz), wiper rubber Holder, Defoaming tank : PVC
Cable	5m
Standard component	Standard flow type detector(detector+holder)with fixing board, Defoaming tank, PP tube 2m×2, Converter, Check Filter
Optional accessories	50A Pole stand, Sunshade cover