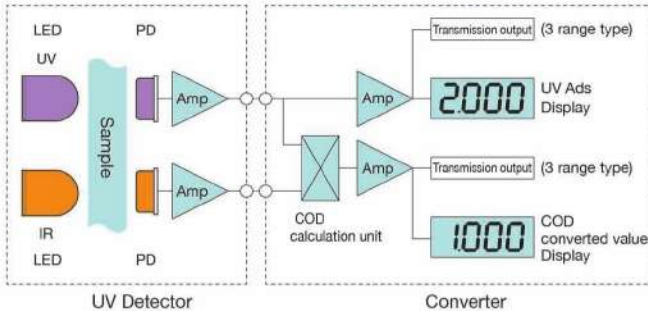


UV/COD

Monitor

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

Detector installation example (Optional)

Immersive type MDL : UVD-LH

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



Hanging type MDL : UVD-LH

Measurement by fixing UV detector to hanging type adaptor and hang with chains, etc. in the effluent tank.



Attention ① Fear of unstable measurement by swinging because of water flow. (in case of hanging type)

Attention ② Stains and bubbles are easy to attach in case flow rate is small.

Attention ③ Indoor installation is recommended as light from outside influences.

Attention ④ Durability of detector is poor compared to flow type measurement as water-proof rubber or cable is always immersed in the water.

Sampling Pump (Example) : (Optional)

For flow type measuring system

Pump → Flow type detector → Measure → Drain
Flow : 30~200m³/min



Sampling Pump



Roller pump

Memory recorder (Optional)



(Record of measured data)

In order to record UV absorbance or converted COD value, connect transmission output (4~20mA) to memory recorder. After scaling, you can record and display them. Measured data is connected to personal computer by moving to USB.

Specifications of converter

Product name	UV Type COD Monitor (UV Organic Pollution Monitor)
Model	A Standard Type:UV-700W-10 (Cell Path 10mm) B 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	A UV-700W-10:0.000~2.000Abs/cm(UV) 0~500mg/ℓ (Converted COD Cr) B 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 500mg/ℓ).
Transmission output	4~20mADC, 2 system, A UV-700W-10 3 Measurement Range : 0-100/200/500 Resolution:0.1 B UV-700W-5 4 Measurement Range : 0-100/200/500/1000 Resolution : 0.1 (For the 1000 range, the maximum display value is 999.9)
Conversion	Converting coefficient $y=a+bx$
Measuring object	COD value
Resolution	UV:0.001Abs/cm, COD:0.1mg/ℓ
Contact point output	During maintenance non-voltage a point (voltage endurance:AC 120V, 1A)
Hold function	Hold transmission output and alarm point by one of below: ①During operation of maintenance mode switch ②When wiper cleaning is operating
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)
Maintenance	Potassium phthalate standard solution (separately sold)
Ambient condition	Temperature:-5~40℃ (avoid direct sun light)
Structure	Dust-proofed, rain-proofed (equivalent of IP65) Recommend to install indoor without sun shine.
Power voltage	AC85~240V
Material	Polycarbonate, metallic silver coated (for all weather)
Installation	50A pole or fixing on the wall

Detector

Product name	Probe type UV LED detector
Model	A Standard type UVD-255-10 (optical Cell Path : 10mm) B 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 +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
Cleaning method	Automatic wiper cleaning system Cleaning cycle : once an hour (possible to set 30min~12hrs) Cleaning frequency : once (possible to set 1~5 times) Possible to clean detector manually by removing from holder.
Ambient condition	Temperature:0~40℃ (avoid direct sun light)
Material	Detector : SUS-316, sapphire (or quartz), wiper rubber Holder, Defoaming tank : PVC
Cable	PVC covered cable 5m
Installation	Flow type:50A pole stand Connecting tube : $\phi 4 \times \phi 6 \times (\text{IN/OUT})$ Immersive type detector:fix with metal fittings (chains or 25A pipe)
Standard component	Standard flow type detector(detector+holder)with fixing board, Defoaming tank, connecting tube $\phi 4 \times \phi 6$ 2m $\times$ 2, Converter, shading hood
Optional accessories	Instruct us in advance for the below specifications Immersive holder (UVD-LH), PVC pipe (25A), pole stand, detector for High Density: UVD-255-5 Liquid feeding pump (for continuous feeding for flow type), Mounting pole stand (50A)

※Above specifications may be changed without notice for product improvement.