

## HYDROCLEAN

# Anti-fouling system for numerical sensor NTU

- Automatic cleaning system for numerical sensor NTU
- Ultra-low power consumption for long term deployments
- Easy to install and simple to operate

### Applications :

- Urban wastewater treatment
- Industrial effluent treatment
- Surface water monitoring,
- Sea water monitoring, fish farming, aquarium



The **HYDROCLEAN** is a mechanical wiper system designed to fit easily to the numerical sensor of **Turbidity NTU**. Using a regular gentle brushing action, the Hydro-Wiper keeps the optical window of the instrument clean from bio-fouling and other unwanted deposits such as mud.

The **HYDROCLEAN** system offers the following features :

- Ultra-low consumption for long term deployments,
- Brush design that has been extensively field proven in extreme conditions,
- On board self monitoring for reliable operation ; if the wiper arm is knocked in front of the instrument face, the wiper arm automatically moves to one side.

The system is coupled with a wiper control module integrated in a box which contain 6 alkaline battery for applications autonomous or in external mode of power supply 6 - 18 V.

**Technical specification**

Specification	
<b>Wipe Interval:</b>	User select (15, 30, 45, 60, 120, 180, 240, 300, 360 or 720 mins)
<b>Clock Accuracy:</b>	+/- 1 minute per year (0-40oC)
<b>Power Supply:</b>	6 x alkaline AA batteries
<b>Power Consumption:</b>	Quiescent, 0.02mA, ~80mA during a wipe
<b>Deployment Endurance:</b>	Wipe interval dependent. In excess of 4 months with a 120 minute wipe interval
<b>Brush:</b>	User replaceable
<b>Battery Housing O-ring:</b>	#142 (2 3/8" x 3/32")
<b>Construction:</b>	Passivated stainless steel, Acetal, Ertalyte
<b>Wiper Shaft:</b>	Multiple bearing support with quad ring seal
<b>Depth Rating:</b>	30 meters as standard
<b>Cable:</b>	EPDM jacketed cable between the wiper and battery housing (1 meter standard length)
<b>Cable Entry:</b>	Cable gland with strain relief, O-ringed puck and resin back fill

**Options :**

<b>Cable:</b>	Additional cable between the wiper and battery housing
<b>External Trigger:</b>	External trigger input to control the wipe operation

**Wiper control housing**

The wiper control housing contains:

- Batteries
- Control electronics
- On/off power switch
- Wipe interval select switch
- Diagnostic LED indicator.

