

HYDROCLEAN ANTI-FOULING SYSTEM FOR NUMERICAL SENSOR NTU

TECHNICAL DATASHEET



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 - 18V.

ADVANTAGES



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

TECHNICAL CHARACTERISTICS

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