



# INSTRUMENTS UNIVERSAL

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## Automatic Interval Sampler *Model IU 801AP*



In spite of having very accurate and costly equipment and well-trained staff for analysis, many industries fail to restrict the level of pollution in effluent to the required standard due to high level of errors and limitation in manual sampling. Accurate, reliable sampling and proper analysis are also two basic requirement of any industry to take remedial action for pollution free effluent discharge system.

Looking into the general need of various industries INSTRUMENTS UNIVERSAL has developed AUOMATIC INTERVAL SAMPLER an import substitute for reliable and accurate sampling of effluents. Automatic Interval

Samplers are design to sample the effluent of required volume at required interval

We are introducing our selves as manufacture of various types of timers and controllers along with specialised laboratory and custom oriented equipment since last 22 years. Since 1980 we are manufacturing various model of Automatic Interval Sampler. Automatic Interval Samplers are designed to sample the effluent & product of required volume at required interval. This is the cost effective basic equipment required for **composite** sampling. We have supplied more then 450 units of s our widely accepted model IU 801 AP.

The unit consists of hybrid electronics timer controller, reliable power supply and drive circuitry with a special low speed motor and a peristaltic pump housed in a sturdy industrial weather proof powder coated cabinet. Pump is design for self-priming from the full depth specified and is manufactured with out seals, gears and valves to minimize maintenance. Maintenance is nearly nil except changing peristaltic tube, a small piece of flexible rubber tube, which can be changed within a minute even by an unskilled labor when, required. Motor and pump are low speed with pre lubricated ZZ type bearings for long life. Pump can run dry for hours without any risk to the equipment. Pump is fabricated from polypropylene, which has very high resistance to almost all chemicals.

Small step in a sample time gives a wide selection of sample volume and cycle time decides next sample period. Automatic purging is very essential facility which ensures totally fresh sample every time and avoid collection of dead sample trapped in suction tube. This also helps in flushing of suction tube after every sample to avoid to choking problem of suction tube.

The sampler has alternative application to monitor incoming or re-circulate water quality, to take small samples from open vessel, chemical dosing or handling small quantity of hazardous or toxic chemicals in laboratories. As the wetted part is only a peristaltic tube, just by changing tube pump can be used to handle another liquid/effluent with in minute without any contamination with the previous handle liquid/effluent. Unit carries a guarantee for a specified period. List of spares, circuit diagram and trouble-shooting chart helps for self-serviceability.

In real time Sampler model IU 801 AP Real time sample will be collected on real time setting basis all other specification are same.

### **Specifications**

<b>Power Supply</b>	:	230VAC 50Hz AC Mains (50 W)
<b>Pump</b>		
Type	:	Peristaltic low flow
Material of Const	:	Polypropylene
Tube Material	:	Silicon
Tube Size	:	ID – 4 mm    OD – 8 mm
Suction	:	20 feet. Of Water Guaranteed (Tested up to 25 feet of water)
Flow	:	60 ml of water per minute at zero Head (Approx.)
<b>Timer</b>		
Sample Time	:	1 to 12 Minutes in step of 1 Minute.
Cycle Time	:	15, 30, 60 and 120 Minutes.
Purge Time	:	Automatic after each sampling (App 2 Minutes)
<b>Cabinet</b>		
Size	:	(W 36 cm x D 29 cm x H 47 cm)
Weight	:	11 Kg.
Material	:	M S Powder Coated.
Sample container	:	10 liter carboy

**Instrument can be installed in open without any Shelter, up to ambient temperature of 45-Degree Centigrade and humidity 95 % none condensing**

**ISO 9001: 2008 certified**

**Web : [www.insuenergyconservation.com](http://www.insuenergyconservation.com), [www.insuindia.com](http://www.insuindia.com), [www.insuindia.co.in](http://www.insuindia.co.in)**

***One Stop Automation Solution***