

## Automatic Interval Sampler *Model IU 801 HP*



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 requirements 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

AUTOMATIC INTERVAL SAMPLER an import substitute for reliable and accurate sampling of effluents. Automatic Interval Samplers are designed to sample the effluent of required volume at required interval

We are introducing ourselves as manufacturers 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 models of Automatic Interval Samplers. 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 than 100 units of our widely accepted model IU 801 HP. One more advantage of this instrument when inlet pressure varies according to sample volume varies. Hence it is nearly called flow proportional sampling systems related to volume. More pressure more flow more sample volume. Lower the pressures lower the flow lower sample volume.

The unit consists of hybrid electronics timer controller, reliable power supply and drive circuitry with a special Stainless Steel Solenoid Valve housed in a sturdy industrial weather proof powder coated cabinet. Stainless Steel Solenoid Valve which has high resistance to almost effluent.

Small step in a sample 1 to 12 second gives a wide selection of sample volume and cycle time decides next sample period. We have provided special filters for choking problem and flushing systems to clean the filter.

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 Stainless Steel Solenoid Valve can be used to handle liquid / effluent without any contamination. Unit carries a guarantee for a specified period. List of spares, circuit diagram and trouble-shooting chart helps for self-serviceability.

### **Specifications**

Power Supply : 230VAC 50Hz AC Mains (50 W)

#### **Valve**

Type : Solenoid  
Material : Stainless Steel  
Voltage : 12 V DC  
Pressure rating : **5 Kg/cm .sq** (Or as per Customer Requirement)  
Volume / Sample : 250 ml sample / second at 5 Kg. Pressure

#### **Timer**

Type : TTL and CMOS Hybrid  
Sample Time : 1 to 12 Seconds in step of 1 Second.  
Cycle Time : 15, 30, 60 and 120 Minutes.

#### **Cabinet**

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)

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***One Stop Automation Solution***