



INSTRUMENTS UNIVERSAL

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***Flame Proof Automatic Interval Sampler
Model IU 201APF***



One Stop Automation Solution



Flame proof automatic interval sampler model IU 201 AP consists of microcontroller base precise accurate timer with quartz control, reliable power supply and drive circuitry with a special low speed motor and a peristaltic pump housed in a sturdy industrial flame proof , with weather proof powder coated cabinet for IP 65. 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 prefabricated 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. We have provided fixed purging pre sampling and post sampling. This also helps in flushing of suction tube after every sample to avoid to choking problem of suction tube.



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SPECIFICATION (IU 201 AP Flame Proof)

| | | |
|--------------------------|---|---|
| Power Supply | : | 230VAC 50Hz AC Mains (100 W) |
| Pump | : | |
| Motor | : | A C Synchronous 7 KG/cm |
| Type | : | Peristaltic |
| Material of Construction | : | Polypropylene |
| Tube Material | : | High life Silicon |
| Tube Size | : | ID – 4 mm OD – 8 mm |
| Suction | : | 25 feet. Of Water Guaranteed (Tested up to 25 feet of water) |
| Flow | : | 60 ml of water per minute at zero Head (Approx.) |
| Timer | : | |
| Type | : | TTL and CMOS Hybrid (with pluggable Socket) |
| Sample Time | : | 1 to 12 Minutes in step of 1 Minute. |
| Cycle Time | : | 15, 30, 60 and 120 Minutes. |
| Purge | : | Pre sample purge for 5 second Post sample purge after each sampling (Approx. 2 Minutes) |

CABINATE DIMENTION

| | | |
|------------------------|---|---|
| Material | : | MS for external housing for carboy Flame proof Instrument. |
| Colour | : | Powder coated with 7 tank process Special for out door application. RAL 7035 Exterior PP |
| Width | : | 730 MM |
| Depth | : | 370 MM (400 with canopy) approx |
| Height | : | 870 MM (920 with canopy) approx |
| Sampler Material | : | Aluminum alloys for Flame proof box. |
| Sample Container | : | 2 Nos. of 10 LTR Carboys |
| Environment Protection | : | IP 65 |
| Weight | : | 60 KGS approximate |
| Installing Instruction | : | Can be installed in open without any Shelter, up to ambient temp. Of 50 -Degree Centigrade and humidity 95 % Non Condense. |

Specifications are subject to change for up-gradation of product.