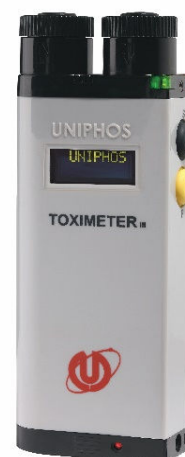


## Applications

1. Electronic Gas Sampling pump for Detector tubes.
2. Pump for collecting gas sample in a sample bag.
3. Pump for collecting Gas sample with impinger.
4. Pump for pushing air trough smoke generation tube.



## Salient Features

1. Electronically controlled sampling pump with a fixed flow rate of 180ml/min.
2. The instrument is calibrated to be used with detector tubes having flow resistance between 40-200 mbar.
3. It has three main modes of operation:
  - 3.1 Detector tube sampling mode:** To draw 100 mL of sample per stroke with tubes categorized on flow resistance (factors F1 to F8).
  - 3.2 Fixed time sampling mode:** The user can set a sampling time between 5 - 480 minutes.
  - 3.3 Fixed volume sampling mode:** The user can set a desired volume between 1- 100 liters.
4. The Instrument has a diagnostic feature for checking internal leakages.
5. The instrument has an inbuilt differential pressure sensor with a pressure range of 0 - 5 psi, used to control the sample volume.
6. All the instrument functions can be accessed by two push buttons located at a convenient position on the instrument.
7. Pump is powered by a 7.4 V, 1400 mAH rechargeable Li-ion battery. It has an inbuilt charge management circuit for protecting battery from overcharge.
8. The instrument has a feature of automatic power off when it is in idle condition for more than 10 minutes.

## Technical specifications

- |                              |   |
|------------------------------|---|
| 1. Dimensions                | : Height 197 mm x Width 72 mm X Depth 33 mm             |
| 2. Weight                    | : Approximately 500 gm                                  |
| 3. Pump                      | : Diaphragm pump with Flow rate up to 250ml/min         |
| 4. Operating time            | : Approximately 8 hours on a fully charged battery.     |
| 5. Charging time             | : Approximately 5 hours for a fully discharged battery. |
| 6. The operating temperature | : -10 to +50 °C.  |
| 7. Accuracy                  | : ±5%.  |
| 8. Housing                   | : ABS material  |
| 9. Display                   | : 8X2 OLED display                                      |
| 10. Visual Indicators        | : 2 LEDs ( 1 Red + 1 Green )                            |
| 11. Audible indicator        | : 1 Piezo buzzer  |