

Arsenic Testing



Arsenic is a naturally occurring contaminant of ground water in several areas of the world.

Unfortunately the health effects of even very low levels of arsenic in drinking water are serious leading to a variety of conditions collectively known as arsenicosis. For many affected individuals the conditions only become noticeable after many years of drinking water contaminated with even very low Arsenic levels.

The World Health Organization recommends a guideline value of 10 $\mu\text{g/l}$ Arsenic in drinking water for prevention of long term health issues.

The DigiPAsS and VisuPAsS systems from Palintest Ltd both operate using the most simple yet elegant technique available and provide analysis to and beyond the WHO recommended value.



The DigiPAsS Digital Portable Arsenic System

The guideline value of 10 $\mu\text{g/l}$ Arsenic requires a field kit capable of performing to laboratory standard. The comprehensive DigiPAsS kit contains all the items required to perform accurate and reliable Arsenic determinations in the field.

Using the well-established Gutzeit method the system operates by converting all Arsenic in the sample to Arsine gas and detecting the gas produced quantitatively using a unique three stage filter. (The filter ensures all Arsine is 'seen' by the detector and also prevents excess Arsine or Hydrogen Sulphide being released during the 20 minute reaction time.)

Once the reaction is complete the concentration of Arsenic is quickly assessed using a colour chart for levels in excess of 100 $\mu\text{g/l}$ Arsenic or the DigiPAsS instrument for superb accuracy in the 2 – 100 $\mu\text{g/l}$ Arsenic range.

Each kit contains sufficient reagents and consumables for 420 tests packaged in a robust field carry case.



The VisuPAsS Visual Portable Arsenic System

Designed for the most challenging environments where electronic detection is not required or desirable and a lower cost alternative is required.

Using the well-established Gutzeit method the system operates by converting all Arsenic in the sample to Arsine gas and detecting the gas produced quantitatively using a unique three-stage filter. The filter ensures all Arsine is 'seen' by the detector and also prevents excess Arsine or Hydrogen Sulphide being released during the 20 minute reaction time.

Once the reaction is complete the concentration of Arsenic is quickly assessed using a colour chart ranged from 10 to 500 $\mu\text{g/l}$ Arsenic.

Each kit contains sufficient reagents and consumables for 200 tests packaged in a robust field carry case.



The MultiPAsS Accessory Pack

Where significant numbers of samples need to be determined the MultiPAsS kit provides the capability to carry out five additional reactions simultaneously.

Each MultiPAsS pack contains five complete reaction stages including the vessel, three-stage filter and filter cartridges to reduce processing time for survey work. The pack is compatible with both the DigiPAsS and VisuPAsS systems.



Specifications and Ordering Information

PT 981 DigiPAsS Digital Portable Arsenic System

Includes:

- Digital Arsenic meter, battery powered, for accurate results in the 2 – 100 µg/l Arsenic range
- Reaction vessel with ground glass neck
- Three-stage filter assembly for maximum detection and prevention of Arsine/Hydrogen Sulphide gas release
- Five (5) black filters for Arsenic detection
- Five (5) red filters for Arsine gas release prevention
- Ten (10) Hydrogen Sulphide filters
- Colour comparison chart for visual result read out to 500 µg/l Arsenic
- Consumables for 420 tests
- Dilution tube, Waste disposal bags, Disposable gloves, Tweezers, Spare battery, Instructions

All supplied in a robust carry case.

PT 980 VisuPAsS Visual Portable Arsenic System

Includes:

- Reaction vessel with ground glass neck
- Three-stage filter assembly for maximum detection and prevention of Arsine/Hydrogen Sulphide gas release
- Four (4) black filters for Arsenic detection
- Four (4) red filters for Arsine gas release prevention
- Four (4) Hydrogen Sulphide filters
- Colour comparison chart for visual result read out to 500 µg/l Arsenic
- Consumables for 200 tests
- Waste disposal bags
- Instructions

All supplied in a robust carry case.

PT 982 MultiPAsS Accessory Pack

Includes:

- Five (5) reaction vessels with ground glass neck
- Five (5) three-stage filter assemblies for maximum detection and prevention of Arsine/Hydrogen Sulphide gas release
- Five (5) black filters for Arsenic detection
- Five (5) red filters for Arsine gas release prevention
- Five (5) Hydrogen Sulphide filters

All supplied in a robust carry case

PT 983 Reagent Refill Pack

Includes sufficient consumables for 200 tests.

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