Serstech SERS-dock

Identify chemical threats detected by AP4C + S4PF/S4PE

Identifying chemical threats, detected with an AP4C + S4PF/S4PE, can be done easily and quickly with Arx handheld Raman using the Serstech Arx and SERS (Surface Enhanced Raman Spectroscopy).

To combat chemical threats in the field, sufficient equipment for detection and identification of such threats is required. These tools must comply with the demands set by the tough conditions where they are needed e.g., small size, light weight, durable, easy to use, and accurate.

The AP4C by Proengin fulfill these requirements and can detect potentially hazardous gases. Whenever a liquid or solid is suspected to contaminate a surface, the S4PF/S4PE can be used to determine whether the material is organic and/or containing sulfur (S), nitrogen (N), phosphorous (P), or Arsenic (As).

For accurate more identification, Raman spectroscopy is commonly utilized. If sufficient material is available, a direct measurement with a handheld Raman device can be carried out in seconds.

If only a small amount of the sample is available, it can still pose a significant threat. The SERS4PF is then used to safely and efficiently transfer the sample collected with the S4PF/S4PE to the SERS substrate via solution. SERS allows for identification of trace amounts (ca 0,1 mg) of sample even after being heated with S4PF/S4PE.

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www.serstech.com
sales@serstech.com

Serstech SERSdock

Specifications

Size	Ø 26 / 13; H: 42 (mm)
Weight	8 g
Detection limit	10 µg
Compatible Devices	Serstech Arx mkII, Serstech SERS kit, AP4C + S4PF/S4PE
Sample Types	Solid, liquid traces
Included in the kit	1 x SERSdock, 1 x SERS adapter, 10 x Solvent bottles (4ml Methanol), 10 x SERS disks

How It Works

Transferring the samples from the scraper tip is simple. Keeping the S4PF/S4PE in one hand, the SERS kit with SERSDock attached, is prepared using the other hand. By gently pressing/squeezing the solvent reservoir and lifting it off, the correct amount of solvent is released onto the SERS substrate.

Solvent (4ml)

SERSdock

SERS disk

Assembled on SERS adapter

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