AIRSENSE introduces:

µ-TD®

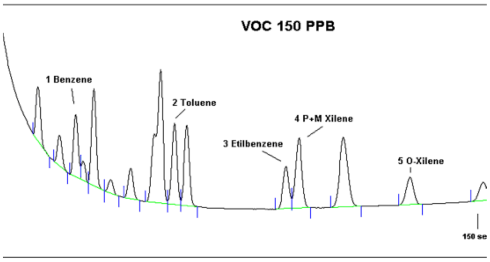
Micro-Trap/Thermal Desorption

Specifically for the use with Micro-Gas-Chromatography

Gas Chromatography is widely used for chemical analysis because of its high resolution capability. Micro-GCs are popular because of their small size and autonomous operation. Micro-GCs measure into the low ppm range, however, on occasion such measurements fall short of user requirements.

Airsense Analytics has developed a new **Trap/Thermal desorption unit** specifically designed to enhance the sensitivity and selectivity of Micro-GCs. Now, a micro-GC interfaced with the **µ-TD** achieves lab quality results in the field.

Increase sensitivity by a factor from 10 to 1000. Adjust system parameters such as flow rate, temperatures and timing of the thermal desorption process using the Airsense control software. Operate the instrument with or without a PC attached to it.



The **µ-TD** gas flow system is designed to fulfill all needs within the different applications of a Micro-GC

- onsite or in the lab
- performing single analyses or continuous operation

Important features:

- **Operates on 110 to 250 Vac or 12 Vdc**
- **Can be operated with different gases including clean air**
- **works with computer or stand-alone mode**
- **runs a full cycle in just over 6 minutes**
- **Increases sensitivity by a factor or 10 to 1000 - ask for details**
- **Increases selectivity by the use of specific adsorbent materials (e.g. hydrophobic)**
- **different adsorbent materials available**
- **specifically designed for the operation with Micro-GCs**

Technical Data

Adsorbent	different adsorbent material available; most common Tenax TA®, 125mg or Tenax TA/Active Charcoal combination.
Tube Holder	one adsorbent tube which can be replaced easily, 8x110mm
Sampling Flow	adjustable, 0.1 to 0.5 l/min
Sampling Temperature	typical 30°C (max. 100°C)
Desorption Temperature	adjustable, up to 300°C
Desorption Flow	adjustable, 2ml/min-200ml/min (external)
Sampling Inlet	heated tube, max. 150°C, fluidic/electrical connector
Transfer Line	heated tube 1/16”, Swagelok, max. 150°C, fluidic/electrical connector
Sampling System	internal pump, internal multi port valve, heated
Cycle Time	typical 6 to 8 min. (with steps: sampling, desorption, injection, cleaning and cooling)
Operating Mode	single cycle or autom. cycling
Repeatability	<1%, typical
Electrical Interface	TTL & Relay communication with devices attached to unit
Computer Interface	serial port – RS-232
Power	110..230VAC and 12VDC (optional), max. 80W
Weight	2.3 kg (5.07 lbm)
Dimensions	230 x 285 x 68mm (9.1 x 11.2 x 2.7 in)
Operating Temperatures	typical: +5°C to 40°C
Operating humidity	5% to 95% r. H., non condensing
Operating system	device control software running on Win ME, NT, 2000, XP
Safety	IEC61010-1

AIRSENSE
ANALYTICS

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