

OVG-4

Overview

The OVG-4 (Figure 2) is a versatile chemical vapour generator that when used in the GEN-SYS either on its own or in a combination of two or three can generate single or multiple gas mixtures. The OVG-4 comprises of two main sections, the oven and the flow control system. The oven chamber can hold up to three 6cm length, 1/4" diameter PTFE permeation sources and the temperature is digitally controlled from 30 to 100C±0.1C in 0.1°C increments. The flow control system comprises of the sample flow and split flow. The sample flow is digitally controlled from 50ml min⁻¹ to 500ml min⁻¹ at 1 ml min⁻¹ increments. The split flow is manually set using the needle valve and split access at the front of the unit.



Figure 2 – The OVG-4

OVG-4 Parameters and Operating Ranges

Parameter	Operating Ranges
Gas	Air / nitrogen
Inlet pressure	40psi
Inlet fitting	1/4" Swagelok quick connect
Sample outlet pressure	10psi
Outlet connection	1/8" Swagelok compression
Exhaust outlet	1/8" Swagelok compression
Oven Diameter	10mm
Oven length	200mm
Power supply	24V
Current rating	2.0A
Fuse	F2A H 250V
Temperature range	30 to 100C±0.1C in 0.1C increments
Sample flow	50ml min ⁻¹ to 500ml min ⁻¹ at 1 ml min ⁻¹ increments
Split flow range	50ml min ⁻¹ to 1000ml min ⁻¹