NANOVA™
Better Life Through Innovation

2-Dimensional

Microfluidic

Modular

Portable

User-friendly

Powerful

NovaTest™ P100

Portable 2D Gas Chromatograph

An Innovation With Unlimited Possibilities

Industry

Indoor

Underground Water

Environmental Air

Petrochemical

Dry Clean

River & Lake

More

2-Dimensional

Most VOCs are separated in the primary column and detected by the primary PID. Using the P100, those co-eluted VOCs that cannot be separated by the primary column will be automatically 'heart-cut' and reinjected to the secondary columns having a different separation mechanism, for further analysis.

Microfluidic

The multi-dimensional design plus unique microfluidic pre-concentrator and detector system greatly improves the detection limit (reaches a level of sub-ppb) and extends the detection capability (more than 50 VOCs).

Modular

Columns and detectors can be independently selected and upgraded based on the applications and field conditions. Flexible modulation adapts to individual customer's ever-changing needs.

Portable

P100 has a compact size of 14 x 12 x 6 in (36 x 30 x 15 cm) and weighs less than 15 lb (7 kg) to be easily carried for tests anywhere. There is also a carrier case for you to pack everything.

User-friendly

Streamlined software minimizes users' operation, rapidly and reliably identifies VOCs, calculates the concentrations, and generates instant test reports in the field.

Powerful

Our innovative P100 is capable of completely separating and accurately analyzing tens of VOCs within several minutes. For certain analytes, the analysis time can be less than 60 seconds.

Available Methods

& Target Gases

TVOC

Total volatile organic compounds

BTEX

Benzene, toluene, ethylbenzene, xylenes

MTBE

Methyl tertiary butyl ether

TCE/PCE

Trichloroethylene, perchloroethylene

Malodors Gas

Ammonia, carbon disulfide, dimethyl sulfide, dimethyl disulfide, hydrogen sulfide, methanethiol, styrene, trimethylamine

Vehicles

Acetaldehyde, acrolein, benzene, ethylbenzene, styrene, toluene, xylenes

Air Quality

1,1,2,2-tetrachloroethane, dichloroethene, dichlorobenzene, trimethylbenzene, 1,2,4-trichlorobenzene, 1,2-dibromoethane, 4-ethyltoluene, allyl chloride, benzene, benzene chloride, chlorobenzene, BTEX, tetrachloroethylene, trichloroethylene

Pollution Source

1-decene, 2-heptanone, 2-nonanone, 3-pentanone, acetone, anisole, benzaldehyde, butyl acetate, BTEX, cyclopentanone, ethyl acetate, heptane, hexamethyldisiloxane, hexane, isopropanol, methoxy-2-propyl acetate, styrene

Water Quality

Dichlorobenzene, chlorobenzene, dichloroethylene, dichloromethane, isopropylbenzene, styrene, tetrachlorotheylene, trichloroethylene, BTEX

* Customization *

Contact us to set personalized methods only for you!

Specifications

Size	14 x 12 x 6 in (36 x 30 x 15 cm)
Weight	15 lb (7 kg)
Detector	10.6 eV PID or 11.7 eV PID
Column	1D: 6 m, customizable column 2D: 2.4 m, customizable column
Detection Limit	About 10 ppt per 1 liter air sample (Benzene)
Precision	± 3%
linearity	10^6
Sampling Method	Auto sampling
Operating Temp. Range	5 - 40°C
Programmed Column Temp.	Room temp. to 200°C
Temperature Stabalization	Yes
Relative Humidity	0% - 95% (non-condensing)
Carrier Gas	Helium in available gas bottle, initial pack provided
Data Transition	USB cable
Power	24 VDC, 110 - 240 VAC, adapter provided
Battery	Li-ion polymer, > 8 hour
Software	NovaSys V1.0
IP Rating	IP53
Explosion Proof	Class I, Zone 1, Ex ia IIABCD T2
Carrier Case	22 x 14 x 9 in (56 x 36 x 23 cm)
Patent No.	US9341604

Learn more at *www.nanovaenv.com*

Nanova Environmental, Inc.

Nanova Environmental, Inc., provides innovative technologies, products and services to advance environmental monitoring and environmental protection.

NANOVA™
Better Life Through Innovation

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