

Voice200Ultra

The ultimate instrument for VOC analysis and quantification

Key Benefits

Instantaneous identification and quantitation of VOCs and inorganic gases using a fully integrated, extensive chemical ionization library

Real-time air analysis to low part-per-trillion by volume (pptv)

Analysis of chemically diverse VOCs in a single analysis

Ease of operation with push-button simplicity and no sample preparation

Designed and engineered for use in commercial, industrial and research environments



Specifications

ANALYSIS CAPABILITY

- Ideally suited to any gaseous sample of volatiles (including whole-air, headspace above solids and liquids, breath)
- Real-time quantitative analysis
- VOCs and inorganic gases
- VOCs from surfaces using swab desorber accessory
- Simultaneous analysis of polar, non-polar, thermally labile and reactive compounds

PERFORMANCE

- Start-up time: <10 minutes
- Standard selectable reagent ions: H_3O^+ , NO^+ , O_2^+
- Reagent ion switch time: 10 ms
- Mass range: 10 – 400 Da
- Mass resolution: unit mass resolution throughout the mass range
- Response time: <100 ms
- Sensitivity: up to 500 cps/ppb
- Detection limit: <1 pptv
- Accuracy: Better than +/- 5% in ppbv range
- Linearity range: 6 orders of magnitude
- Dynamic range: 6 orders of magnitude

SAMPLE INTRODUCTION

- Whole air directly
- Sample bag
- Canister
- Direct breath
- Sorbent tube
- Swab
- Autosamplers
- Custom integration

SYSTEM AUTOMATION

- Stand-alone operation without additional PC
- Simple operation via touchscreen interface
- Fully automated daily validation cycle for data quality assurance
- Comprehensive on-board hardware and software to self-monitor performance
- Integration with autosamplers

CONSUMABLES

- Carrier gas: helium or nitrogen (purity >99.995%); gas purifier recommended for removal of trace organics
- Reagent ion source: water
- Validation standard
- Operate from a nitrogen generator for truly stand-off operation

DATA OUTPUT FORMATS

- Live data streaming via TCP/IP Ethernet port
- Syft native XML format (used by LabSyft software)
- Generic spreadsheet format (CSV)
- Text format system information and raw data
- WITS
- Customized integration

ENVIRONMENTAL CONDITIONS

- Ambient operating temperature: 10°C to 30°C (40°C with optional cooling module)
- Ambient operating humidity: 5 to 95%
- Storage extremes: -40°C to 65°C

INTERFACES

- TFT colour 8.4" LCD touchscreen
- Online control for use in remote sites and rapid expert support
- 10/100 Ethernet (TCP/IP)
- Barcode scanner or keyboard (optional)

PHYSICAL PROPERTIES

- Height: 900 mm (35.4 in.)
- Width: 725 mm (28.5 in.)
- Depth: 875 mm (34.5 in.)
- Weight: 187 kg (412 lb)
- Mobile options (e.g. van mounting)

OPERATING PARAMETERS

- Power: 200-264 VAC, 47-63 Hz, 1.6kVA
- Carrier gas consumption: Helium 360 sccm or Nitrogen 180 sccm
- Standard sample inlet flow: 20 sccm

SAFETY CONFORMANCE

- IEC61010-1
- EN61010-1

ELECTROMAGNETIC CONFORMANCE

- EN61326
- CISPR 11/EN 55011: Group 1, Class A

OPTIONAL ACCESSORIES

- LabSyft software package (powerful data viewing, handling and interpretation modules; advanced method development; device integration; batch handling)
- High performance inlet
- Swab desorber
- Sample collection case with integrated sampling wand
- Sample bag flushing system
- Cooling module for warm climates (extends operation to 40°C)
- In-line dilution accessory
- Autosamplers (canisters, sample bags, bottles, thermal desorption tubes)
- Motor vehicle mounting hardware
- Customized integration with automated processing equipment, environmental monitoring systems, etc.

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