



Mobile Monitoring Solutions

Advanced Monitors for Comprehensive Airborne Contaminant Detection



Flexible options to meet your most challenging mobile monitoring needs.

Applications

- Air toxics monitoring
- Source emissions monitoring
- Industrial park air monitoring and emission management
- Fenceline monitoring
- Fast screening of material emissions
- Production quality assurance and control

Features

- Fast, real-time, direct analysis
- pptV limits of detection
- High resolution for accurate compound identification
- Broad compound coverage of a wide range of organics and inorganics
- Easy-to-interpret results
- Compact, customizable solutions for deployment anywhere

TOFWERK
air quality



Learn More

Detection capabilities and specifications

TOFWERK provides customized mobile air monitoring solutions for integration into van and standard-sized vehicles. Thanks to their compact size, small footprint, and low power consumption, the Vocus Eiger PTR and Vocus B Aim mass spectrometers are ideal for on-the-go monitoring or advanced mobile application needs.

Instrument Options

Model	Vocus B	Vocus B2	Eiger	Scout
Reactor	Vocus Aim		Vocus PTR	
Reagent ion switching	Typical configuration: 4 reagent ions in 2 s		H_3O^+ , NH_4^+ , O_2^+ , NO^+	
Concentration range	ppq - 500 ppb		ppt - 5 ppm	
Mass resolving power ($M/\Delta M$)	> 1 000	> 4 500	> 4 000	> 4 000
Detection limits (pptv, 1 min)	1 - 50	0.1 - 10	< 20	< 5
Dimension (mm)	480 x 615 x 925	480 x 615 x 1 335	422 x 630 x 840	480 x 615 x 1 130
Weight (kg)	140	170	95	120
Power	< 1 100 W (600 W typical)	< 1 100 W (600 W typical)	< 1 100 W (600 W typical)	< 1 100 W (600 W typical)

Compound Coverage

Target Analyte Classes	Reactor	Reagent Ion
Small oxygenated compounds, polar molecules, BTEX, PAHs, other aromatics	PTR	H_3O^+
Alcohols, substituted aromatics, cyclic and branched alkanes, long-chain semi-volatile alkanes	PTR	NO^+
Alkanes, carbon disulfide, halogenated compounds, ethylene oxide	PTR	O_2^+
Highly functionalized VOCs, lightly oxygenated compounds, peroxides, siloxanes	PTR/Aim	NH_4^+
Oxygenated organics, acids, peroxides, inorganic acids, inorganic compounds, iodine containing compounds, HO_2 radicals, mono carboxylic acids, iodine radicals	Aim	I^-
Amines, Ammonia, Solvents	Aim	Br^-
Volatile hydrocarbons, DMS, ammonia	Aim	Protonated Acetone (A^+)
Highly oxygenated organics, sulfuric acid	Aim	Benzene Cations (B^+)
		Nitrate (NO_3^-)

Software

VocusMOBILE is a software solution for mobile air quality and fence line monitoring, offering easy system control, a mobile-friendly UI with 2D and 3D mapping capability, instant reporting, meteorological data integration, automated calibrations, and data broadcasting via multiple protocols.



VocusMOBILE: Real-time Vocus analysis integrated directly into 2D and 3D maps.