

PRODUCT SPECIFICATIONS



FAIMS Pro interface

Improve selectivity, every day

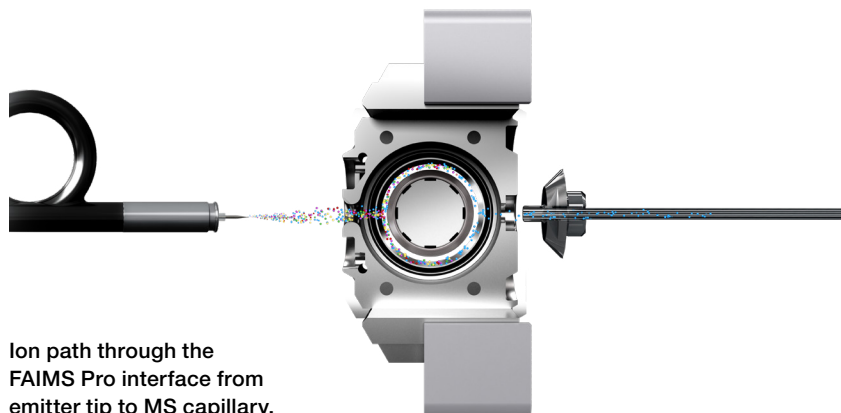
Benefits

- Redesigned FAIMS technology for nanoflow proteomics applications
- Improved Compensation Voltage (CV) switching time
- Increased ion transmission
- Enhanced ease-of-use with tool-free and one-way assembly
- Seamless integration with application-specific software ensures maximum productivity
- Automated CV optimization

The Thermo Scientific™ FAIMS Pro™ interface provides the selectivity and ease-of-use to meet the most demanding analytical challenges in proteomics. The FAIMS Pro interface, when coupled to a Thermo Scientific™ Orbitrap Fusion™ Lumos™ Tribrid™ mass spectrometer or Orbitrap Fusion™ Tribrid™ high-resolution mass spectrometer, delivers the ultimate performance for improved peptide and protein identifications in complex matrices and for lower abundance proteins. This superb analytical performance combined with streamlined software and hardware designed to provide simple maintenance creates a platform with maximum usability and selectivity for proteomics workflows. The FAIMS Pro interface with Orbitrap Fusion Lumos MS provides users unmatched data quality and performance.

Keywords

[FAIMS Pro interface](#), [Orbitrap Fusion Lumos](#), [Orbitrap Fusion](#)



Ion path through the FAIMS Pro interface from emitter tip to MS capillary.

Hardware features

Optimized analytical gap

A smaller analytical gap of 1.5 mm provides higher fields, maintaining separation capabilities without the need for helium gas.

Faster CV switching time

- CV switching time of 25 msec on Orbitrap Fusion Lumos MS
- CV switching time of 40 msec on Orbitrap Fusion MS

Nano to capillary flow compatibility

FAIMS Pro interface is compatible with flow rates ranging from 100 nL/min to 25 μ L/min.

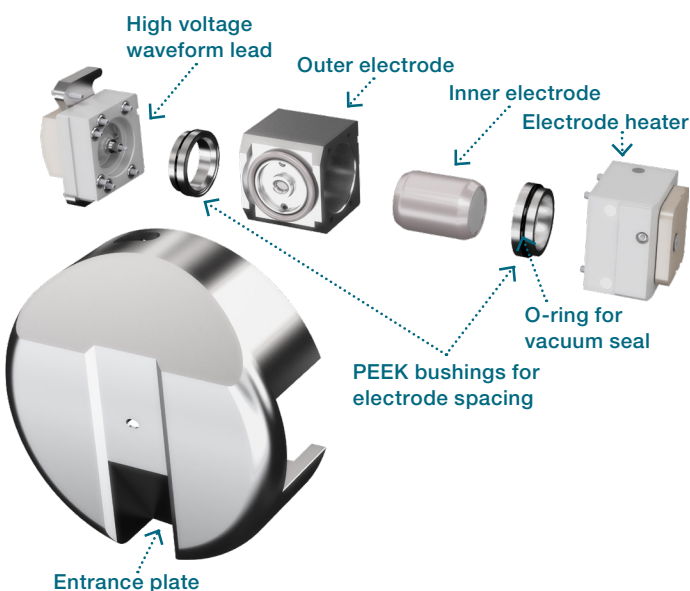
Tool-free and one-way assembly

FAIMS Pro electrodes can be quickly removed and easily disassembled for cleaning, without tools. Reassembly and mounting to the instrument takes a few minutes.

Compatibility with TNG source housings

FAIMS Pro interface mounts to the TNG MS platform with a collar flange, and can accept most TNG ion source housings:

- Thermo Scientific™ EASY-Spray NG™ ion source is designed for maximum nanoelectrospray performance with no need for adjustments
- Thermo Scientific™ Nanospray Flex NG™ ion source is designed for ultimate nanoelectrospray performance with complete flexibility of column selection



Software features

Method templates for proteomics workflows

Predefined DDA templates in the Method Editor contain optimized FAIMS Pro parameters to streamline proteomics experiments from data acquisition to processing.

Compensation voltage optimization

- Automated CV optimization in Tune
- Optimized CVs for SIM or SRM scan recommended
- Raw file saved and .pdf report option

Software support

- Compatible with Thermo Scientific™ Proteome Discoverer™ v2.2 and later software for automated qualitative and quantitative data processing
- Thermo Scientific™ FreeStyle™ v1.3 and later software offers CV plots for exploration of CV scan data
- Skyline (University of Washington) support of explicit CV values

Installation requirements

Power

- One 120 Vac +6–10%, 50/60 Hz at 20 A
- Free from voltage variations above or below the recommended operating range

Gas

- FAIMS gas: 99.9% pure Nitrogen, \geq 20 L/min (100 psi)

Environment

- Functional temperature range: 15–32 °C (59–9 °F)
- Optimal temperature range: 18–27 °C (65–81 °F)

Dimensions

Size

- Main control box: 483 × 318 × 64 mm (h, w, d – 19 × 12.5 × 2.5 in)
- RF coil box and adapter flange: 254 × 330 × 483 mm (h, w, d – 10 × 13 × 19 in)

Weight

- Main control box: 3.7 kg (8.2 lb)
- RF coil box and adapter flange: 3.5 kg (7.7 lb)

Find out more at thermofisher.com/FAIMSPro

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