

UMS

Universal Mass Spectrometer



- Multifunctional Wide Pressure Range Mass Analysis
- System for Thermal Desorption Spectrometry (TDS)

DESCRIPTION

The UMS is equally suited for use in scientific and industrial fields. It can be used for a variety of gas analysis and thermal desorption experiments.

Operation is fully controlled by a microprocessor control unit equipped with a large 7" TFT LCD touchscreen. Such a combination of easy and user-friendly interface allows for full automatic pumping and venting together with complete protection of all built-in components.

The small size and relatively low weight allows easy transportation. The unit has its own pumping system, quadrupole mass spectrometer and inlet that allows for operation over a wide range of pressures with simultaneous mass analysis for 10 gases. As an option, the UMS can be equipped with PID and heating controllers for dedicated Thermal Desorption Spectrometry.

Full operation of the spectrometer is controlled by dedicated TDS software via Ethernet interface.

TECHNICAL DATA

Supply voltage	230V AC
TMP pumping speed	90 l/s
Vacuum	5×10^{-7} mbar
Vacuum connection	DN 40CF
Sniffer connection	OD 0.36 mm
Mass range	to 100, 200 or 300 AMU
Weight	~42 kg
Capillary - Ultimate Plus Deactivated Fused Silica	

APPLICATIONS

- Precise mass analysis of gas compositions with mass range options of 100, 200 and 300 AMU.
- TPD/TDS measurements

FEATURES

- Fast measurements
- New highly flexible capillary
- Easy capillary unblock feature
- Small size and light weight
- New, more effective turbo pump
- Intuitive and user friendly interface with large 7" LCD touchscreen
- Easy to use
- Silent working
- Data storage and analysing
- Dedicated software
- Built-in PID controller (optional)



Front panel



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