

MGA/MGS 100/300 Multi Gas Analyzer/Sniffer

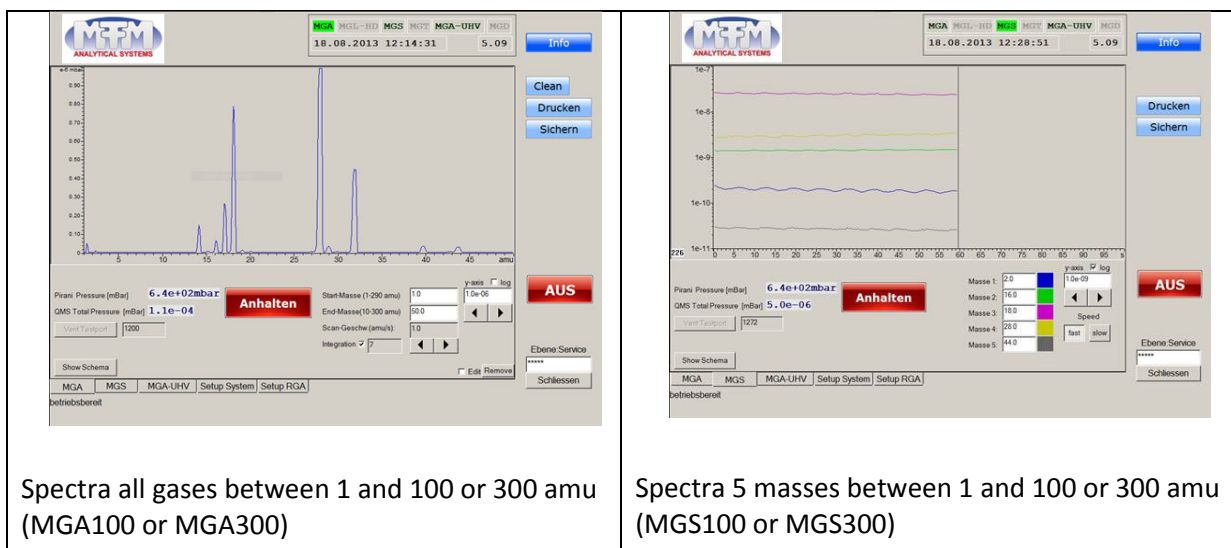
Quadrupole Mass Spectrometer

- highly integrated quadrupole mass spectrometer
- very high resolution
- measuring all masses from 1 to 300 amu
- high mass selectivity
- partial pressure down to 5×10^{-14} mbar
- automatic measuring pressure optimization
- pressure ranges between 10^{-3} mbar and 1000 mbar (10^{-8} mbar in UHV version)
- fully automatically measurements
- oilfree vacuum via high performance scroll pump



Handling

- modern and easy to handle touchscreen
- simply choose of mass range
- measured spectra may be printed or saved
- running integration on the users demand
- software updates may be done per button click (per Ethernet or USB)



Technical Data:

Dimensions	550 × 500 × 430 mm ³
Testport Flange	ISO KF25
User Interface	Grafical Touchscreen
Operating Temperature	10°C to 35°C
Digital and analog Interface	Ethernet, USB, analog I/O ports
Weight	45 kg
Startup time	Quick measurement: 150 sec Standard Measurement: 10 min
Power supply	90-240 V, 50-60 Hz, 400W max.
Pumpsystem	Oilfree Scrollpump & Turbopump
Pumping speed at testport	10 l/s (in UHV version)
Minimal detectable partial pressure	10 ⁻¹⁰ mbar
Detectable Gases (MGA)	All gases between 1 and 100 or 300 amu (MGA100 or MGA300)
Detectable Gases (MGS)	5 masses between 1 and 100 or 300 amu (MGS100 or MGS300),
Detectable Gas Components	for example O ₂ , CO ₂ , Ne, Ar, oil components, cooling solvents ..
Detectable species	Ions, neutrals and radicals
Sensitivity	> 1,5×10 ⁻⁴ A/mbar
Abundance Sensitivity	10 ⁵
Resolution	1 amu with 10% valley resolution over the full mass range
Detection	Faraday cup or multiplier, automatically chosen by the system