

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
 10⁻³mbar 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 p er button click (per Ethernet or USB)

		MGA MGL-HD MGS MGT MGA-UHV MGD 18.08.2013 12:14:31 5.09	Info		MGA MGL-HD MGS MGT MGA-UHV MGD 18.08.2013 12:28:51 5.09	Info
			Clean Drucken Sichern	16-3 16-8 16-8		Drucken Sichern
	3 10 16 20 25 Pean Pessive (mba) 6.46+02mbaz Anhalten ONS Total Pessive (mba) 1.1e-04 Anhalten Store Schema	50 50 40 40 ama Stan Manse (1:200 ama) 10 10.66 10.66 10.66 Exch Manse (1:200 ama) 10.0 10.0 10.0 10.0 10.0 Scan Geschw (ama/) 10.0	Ebene Service	VIN 0 5 10 10 20 20 30 30 Pranti Pressue (nDar) 6.46:102mbar 6.46:102mbar <td>5 40 46 60 56 60 66 70 70 60 60 50 70 Martin 12 Anhalton Masses 2 Masses 2 Masses 5 40 mm Solup RGA</td> <td>Ebono Senico</td>	5 40 46 60 56 60 66 70 70 60 60 50 70 Martin 12 Anhalton Masses 2 Masses 2 Masses 5 40 mm Solup RGA	Ebono Senico
•	Spectra all gases between 1 and 100 or 300 amu (MGA100 or MGA300)			Spectra 5 masses b (MGS100 or MGS30	etween 1 and 100 or 3 00)	300 amu







Technical Data:

Dimensions	$550 \times 500 \times 430 \text{ mm}^3$
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	lons, neutrals and radicals
Sensitivity	> 1,5×10 ⁻⁴ A/mbar
Abundance Sensitvity	10 ⁵
Resolution	1 amu with 10% valley resolution over the full mass range
Detection	Faraday cup or multiplier, automatically choosen by the system