

Specifications

Spectrum Generator [QL-SG01-065] [QL-SG01-100]		
Spectrum Generator Type	QL-SG01-065	QL-SG01-100
Mass Range	2-65 amu	2-100 amu
Mass Filter Type	Quadrupole	
Detector	Faraday cup	
Measurement Scan Speed (Data Update at Fast Scan)	1 sec/scan for 1 gas (10 sec/scan for 10 gases)	
Ionization Voltage	43eV or 70eV selectable	
Operating Temperature	15 - 45 degC	
Operating Humidity	30 - 80 %RH (not condensing)	
Weight (with Special Clamp for SMPA type sensor)	565 g	
Dimension	W150 x H62 x D47 (mm)	
Communication and Baud rate	RS485, 9.6K / 19.2K / 38.4 Kbps	
Power Input	DC 24V +/-5%, 70VA	
Connector type (Power supply)	Round Type Connector: PRC05-R6M	
Monitor / Control	Monitor controller (QL-MC01) or Application Software (QL-MS01)	
CE Marking	Compliant	
RoHS	Compliant	
Sensor [MPA7 / SMPA7]		
Sensor Type	Analyzer [Sensor Type : 7-2/65]	Analyzer [Sensor Type : 5-2/100]
Maximum Output rising pressure (N2)	0.5Pa	0.2Pa
Maximum Operating Pressure (N2)	0.9Pa	0.6Pa
Minimum Detectable Partial Pressure (N2)	5×10 ⁻⁶ Pa (70eV)	5×10 ⁻⁶ Pa (70eV)
Resolution (FWHM: N2)	1.2±0.3 amu	1.0±0.3 amu
Maximum Bake out Temperature (SG removed)	350 degC	
Maximum Operating Temperature (SG installed)	150 degC	
Mounting Flange	M P A : [C] CF34 (ICF 34) SMPA : [C] CF34 (ICF 34), [K] ISO-KF16 (NW 16)	
Weight	M P A : CF34 Flange 50 g SMPA : ISO-KF16 Flange 50 g SMPA : CF34 Flange 70 g	
Filament	Y2O3/Ir 2pcs	
RoHS	Compliant	
*Micropole Analyzer has 2 types (MPA/SMPA). SMPA is protected by a mesh on the vacuum fitting, designed to extend the lifetime of sensor in harsh environment such as plasma processes.		
Power Supply Unit [QL-PS01]		
Input	AC : 100~240 V, 50/60Hz	
Output	DC : 24V	
AC Code set	3m	
Operating Temperature	15 - 45 degC	
Operating Humidity	30 - 80 %RH (not condensing)	
Dimension	W70 x H92 x D130 (mm)	
Weight	690 g	
Special Cables		
Cable (QL-CR01) between SG and MC	Length : 0.1, 3, 5, 10 m	
Cable (QL-CR01) between SG and Power supply	Length : 0.1, 3, 5, 10 m	
Cable (QL-CR01) between MC and Power supply	Length : 0.1, 3, 5, 10 m	
Cable (SC-EBR) between SG and PC (RJ45 connector)	Length : 3, 10 m	
Special Clamps		
Clamp (QL-LK01) : ISO-KF16 (NW16) flange for MPA sensor	Weight : 105 g	
Clamp (QL-LC01) : CF34 (ICF34) flange for MPA sensor	Weight : 140 g	
Clamp (QL-LS01) : For SMPA sensor	Weight : 190 g	
Software [QL-MS01]		
Software (for PC)	"MICROPOLE SCANNER" QL-MS01	
OS	Windows® XP, Vista (.NET Framework Ver.2 or higher is required)	
Interface	RS-485 (QL-SG01) / Ether Net (QL-MC01)	
Simultaneously controllable systems (by PC)	Maximum 8 units from a single PC	
Display	Bar, T.G.O., Analog, 3D (Analog+Time scale)	
Measurement mode	Full, Selected, Single	
Display unit	Pa, Torr, mBar, Ampere	
Display scale	Linear, Logarithmic	
Data save	Saved after measurement, or Auto save can be converted to CSV file format.	
Recommendation of PC	Pentium 1.6GHz or higher. RAM : 1GB or more. HDD : 2GB or more	