

Sensor [RoHS compliant]	[MPA7 / SMPA7]			[SMPA7]
Sensor type	Analyzer [Sensor Type: 7-2/65]	Analyzer [Sensor Type: 5-2/100]	Analyzer [Sensor Type: 1-4/300]	Analyzer [Sensor Type: 1-2/100]
Maximum output rising pressure (N ₂)	0.5Pa	0.2Pa	0.2Pa	0.1Pa
Maximum operating pressure (N ₂)	0.9Pa	0.6Pa	0.4Pa	0.1Pa
Minimum detectable partial pressure (N ₂)	5×10 ⁻⁶ Pa (70eV)	5×10 ⁻⁶ Pa (70eV)	5×10 ⁻⁶ Pa (70eV)	5×10 ⁻⁶ Pa (70eV)
Resolution (FWHM: N ₂)	1.2±0.3 AMU	1.0±0.3 AMU	1.8±0.3 AMU	1.5±0.3 AMU
Maximum bake out temperature (SG removed)	350 °C			350 °C
Maximum bake out temperature (SG installed)	150 °C			150 °C
Mounting flange	M P A : [C]CF34 (ICF 34) SMPA : [C]CF34 (ICF 34), [K]ISO-KF16 (NW 16)			[C]CF 34 (ICF 34), [K]ISO-KF16 (NW 16)
Mass	M P A : CF34 Flange 50 g SMPA : ISO-KF16 Flange 50 g SMPA : CF34 Flange 70 g			ISO-KF16 Flange 50 g, CF34 Flange 70 g
Filament	Y ₂ O ₃ /Ir 2pcs			3% Re/W 2pcs
RoHS	Complied			Complied

* 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.

Spectrum Generator [QL-SG01-065-1A] [QL-SG01-100-1A] [QL-SG01-300-1A]			
Spectrum generator type	QL-SG01-065-1A	QL-SG01-100-1A	QL-SG01-300-1A
Mass range	2-65 AMU	2-100 AMU	4-300 AMU
Mass filter type	Quadrupole		
Detector	Faraday cup		
Measurement scan speed (data update at baseline scan)	1 sec/scan for 1 gas (10 sec/scan for 10 gases)		
Ionization voltage	43 eV or 70 eV selectable		
Operating temperature	15 - 45 °C		
Operating humidity	30 - 80 %RH (not condensing)		
Mass (with special clamp for SMPA type sensor)	575 g		
Dimension	W149 x D47 x H62 (mm)		
Communication and baud rate	RS485, 9.6k / 19.2k / 38.4 kbps		
Power input	DC 24V +/-5%, 100mVpp, 70VA		
Connector type (power supply)	Round Type Connector: PRC03-23A10-4M		
CE marking	EMC directive: EN61326-2-3		
RoHS	Complied		

* 1Btype: With interlock function

Power Supply Unit [QL-PS01-1A]	
Input	AC : 100 - 240 V, 50/60Hz
Output	DC : 24V
Operating temperature	15 - 45 °C
Operating humidity	30 - 80 %RH (not condensing)
Dimension	W70 x D130 x H92 (mm)
Mass	700 g

Special Cables	
[QL-CR01-*M-1A] Between SG and Power supply	Length*: 3, 5, 10 m
[SC-EBR] Between SG and PC (RJ45 connector)	Length: 3, 10 m
[QL-TA01] For external input	Length: 3, 5 m

* Do not use the attached cable set (power supply cable) with other products.
* Please use a power supply cable set conforming to the local standards.

Special Clamps	
[QL-LC] CF34 (ICF34) flange for MPA sensor	Mass: 140 g
[QL-LS] For SMPA sensor	Mass: 190 g

* Please let us know if you'd like to install into your device.

Data can be transferred to PCs for the visual display of analysis results.

Software [QL-MS01]	
Software (for PC)	"MICROPOLE SCANNER" QL-MS01
OS	Windows® XP, Vista (.NET Framework Ver.2 or higher is required)
Simultaneously controllable systems (by PC)	Maximum 8 units from a single PC
Display	Bar, Trend, Analog, 3D (Analog+Time scale)
Measurement mode	Full, Selected, Single
Display unit	Pa, Torr, mBar, Ampere
Display scale	Linear, Logarithmic
Date save	It can be converted to CSV file format.
Recommendation of PC	Pentium 1.6GHz or higher, RAM: 1GB or more, HDD: 2GB or more

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