

Basic Process Gas Monitor [Qulee BGM Series]

"Qulee" (pronounced as "KLEE"), is ULVAC's latest model for residual gas analysis. Feedback from facility engineers in various production lines are incorporated in the new product design offering utmost simplicity. Most appropriate for system control of vacuum evaporator and various types of vacuum furnaces.



Features	> Qu Th
Excellent in Cost Performance	> QII
Suitable for RGA application	Au
Integrated Display	▶ Ар
No need for PC	Со
Simple Operation	
"One Click" function	
Bake Out	
Max 120°C (248°F) high temperature bake (250°C (482°F) when	
sensors are removed).	► Re
Degas Function	ma
Electron bombard degas	> Re:
Protection and Maintenance Features	> Re
lon source and secondary electron multiplier protection maintenance	> Re
help function	🕨 Vai
Traceability of analysis tube (patent pending)	
Various Leak Tests are Available	
Helium leak test, air leak test, leak up	
Total Pressure Measurement	
Capable of total pressure measurement (ionization gauge)	

- Qulee QCS is Included
 This software is included and compatible with (Windows 7/8)
- QIP (Quick Install Package system) is Included
 Auto measuring package (refer to the options catalog for details)
- Applicable Standard Conforms with CE

Applications

- Residual gas monitoring for PV, FPD, and semiconductor manufacturing system
- Residual gas analysis in PVD system and vacuum deposition
- Residual gas analysis for high vacuum pumping equipment, etc.
- Residual gas analysis for freeze drying system
- Various types of gas analysis for research and development

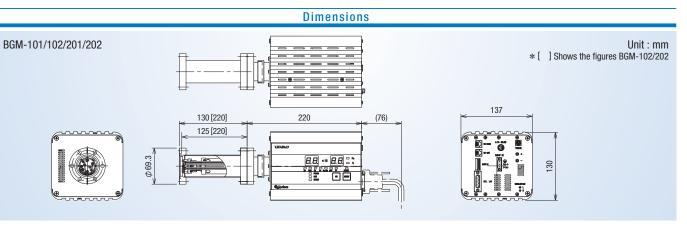




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Specifications						
Model	BGM-101	BGM-102	BGM-201	BGM-202		
Mass filter type	Quadrupole	:				
Mass range	1 to 100 amu 1 to 200 amu					
Resolution	M/△M=1M(10% P.H.)					
Detector type	Faraday cup	EM tube/Faraday cup	Faraday cup	EM tube/Faraday cup		
Sensitivity	10 ⁻⁷ A/Pa	4 A/Pa	10 ⁻⁷ A/Pa	4 A/Pa		
	1.33×10 ⁻⁵ A/Torr	533 A/Torr	1.33×10 ⁻⁵ A/Torr	533 A/Torr		
	1×10 ⁻⁵ A/mbar	400 A/mbar	1×10 ⁻⁵ A/mbar	400 A/mbar		
Minimum detectable partial pressure	10 ⁻⁸ Pa	10 ⁻¹² Pa	10 ⁻⁸ Pa	10 ⁻¹² Pa		
	7.5×10 ⁻¹¹ Torr	7.5×10 ⁻¹⁵ Torr	7.5×10 ⁻¹¹ Torr	7.5×10 ⁻¹⁵ Torr		
	1×10^{-10} mbar	1×10 ⁻¹⁴ mbar	1×10 ⁻¹⁰ mbar	1×10 ⁻¹⁴ mbar		
Maximum operating pressure	1×10 ⁻² Pa					
	7.5×10 ⁻³ Torr					
	1×10 ⁻⁴ mbar					
Filament	Ir/Y ₂ O ₃ , 2pcs					
lonizing voltage	50eV					
Emission current	0.5mA					
Degas	Electron bombard type 300V, 5mA					
Total pressure function	Capable					
One Click function	Capable/He/H ₂ O/N ₂ /O ₂ /Any gas					
One Click leak test function	Capable					
Power input	DC24V ±10% 50W (Please prepare an AC/DC power supply or please purchase the AC/DC adaptor of an option)					
Weight (sensor unit/sensor)	2.1kg/0.50kg	2.2kg/0.64kg	2.1kg/0.50kg	2.2kg/0.64kg		
Maximum sensor operating temperature	120°C (248°F)			· · · ·		
Maximum bakeout temperature (electronics removed)	250°C (482°F)					
Operating temperature range	10 to 40°C (50 to 104°F)					
Operating humidity range	15 to 80% (not condensing)					
IP rating	IP30 (sensor unit)					
Power connector	MSTBV2.5/3-GF-5.08					
Serial communication type	RS232C/RS485 (with option)					
External input/output connector	D-sub15-pin (M2.6 screw)					
Serial communication connector	6 pole 6 wire modular connector (RJ-11)					
External input/output signal	Analog input (0 to 10V) \times 2, External interlock input (pressure protection) \times 1, Partial pressure setpoint output \times 2 (fault, alarm), Total pressure setpoint output \times 1					
Software	Qulee QCS Ver.3.1 later (Windows 7/8)					
Standard accessories	Power connector, Communication cable (3m long), Software (Install CD), Instruction manual (Clean paper)					
Optional accessories (cf. Qulee optional catalogue)	Communication cable (5m,10m,15m long), AC power adapter, USB/RS232C Micro Converter, USB/RS485 Micro Converter, RS485 branch connector and junction cable, Input/output connector, Jacket heater (BGM-102/202), Carry case					
Applicable standard	CE					

% When there is no RS232C port in PC, please purchase USB/RS232C micro converter of option.



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