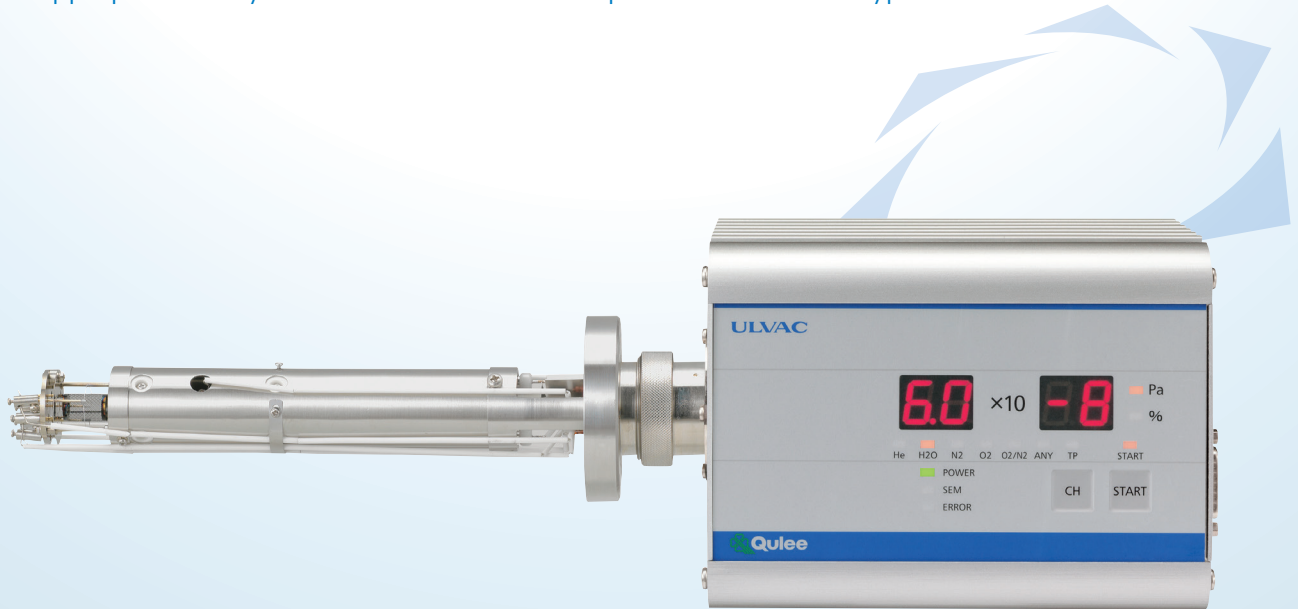


Basic Process Gas Monitor [Qulee BGM2 Series]

"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.(Ethernet compatible)

Most appropriate for system control of vacuum evaporator and various types of vacuum furnaces.



Features

- ▶ **Excellent in Cost Performance**
Suitable for RGA application
- ▶ **Communication interface**
Ethernet compatible
- ▶ **Integrated Display**
No need for PC
- ▶ **Simple Operation**
"One Click" function
- ▶ **Bake Out**
Max 120°C (248°F) high temperature bake (250°C (482°F) when sensors are removed)
- ▶ **Degas Function**
Electron bombard degas
- ▶ **Protection and Maintenance Features**
Ion source and secondary electron multiplier protection maintenance help function
- ▶ **Various Leak Tests are Available**
Helium leak test, air leak test, leak up
- ▶ **Total Pressure Measurement**
Capable of total pressure measurement

- ▶ **Qulee QCS is Included**
This software is included and compatible with (Windows 7/8/10)
- ▶ **Applicable Standard**
Conforms with CE

Applications

- ▶ Residual gas analysis for organic electro luminescence
- ▶ 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

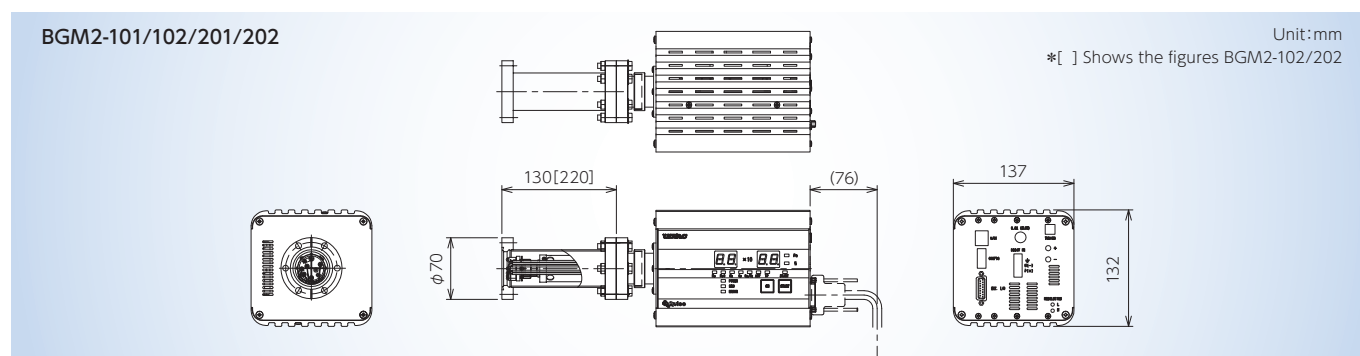
Basic Process Gas Monitor [Qulee BGM2 Series]

Specifications

Model	BGM2-101	BGM2-102	BGM2-201	BGM2-202
Mass filter type	Quadrupole			
Mass range	1 to 100 amu		1 to 200 amu	
Resolution	M/ΔM=1M(10% P.H.)			
Detector type	Faraday cup	EM tube/Faraday cup	Faraday cup	EM tube/Faraday cup
Sensitivity	10 ⁻⁷ A/Pa 1.33×10 ⁻⁵ A/Torr 1×10 ⁻⁵ A/mbar	4 A/Pa 533 A/Torr 400 A/mbar	10 ⁻⁷ A/Pa 1.33×10 ⁻⁵ A/Torr 1×10 ⁻⁵ A/mbar	4 A/Pa 533 A/Torr 400 A/mbar
Minimum detectable partial pressure	10 ⁻⁸ Pa 7.5×10 ⁻¹¹ Torr 1×10 ⁻¹⁰ mbar	10 ⁻¹² Pa 7.5×10 ⁻¹⁵ Torr 1×10 ⁻¹⁴ mbar	10 ⁻⁸ Pa 7.5×10 ⁻¹¹ Torr 1×10 ⁻¹⁰ mbar	10 ⁻¹² Pa 7.5×10 ⁻¹⁵ Torr 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			
Ionizing voltage	50eV			
Emission current	0.5mA			
Degas	Electron bombard type 330V, 5mA			
Total pressure function	Capable/10 ⁻² ~ 10 ⁻⁵ Pa			
SEM Voltage	—	-1.0 to -3.0kV(1V step)	—	-1.0 to -3.0kV(1V step)
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			
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-STF-5.08			
Communication interface	Ethernet compatible			
External input/output connector	D-sub15-pin (M2.6 screw)			
Communication connector	RJ45			
External input/output signal	Analog input (0 to 10V) ×2, External interlock input (pressure protection) ×1, Partial pressure setpoint output ×2 (fault,alarm),Total pressure setpoint output ×1			
Software	Qulee QCS Ver.4 later (Windows 7/8/10)			
Standard accessories	Power connector, Communication cable (3m long), Software (Install CD), Instruction manual (Clean paper)			
Optional accessories (cf. Qulee optional catalogue)	Communication cable (10,15,20,30,50m long), AC power adapter, USB-LAN adapter,Switching hub(8 ports or 16 ports) Input/output connector, Jacket heater (BGM2-102/202), Carry case			
Applicable standard	CE			

*Please prepare an AC/DC power supply or please purchase the AC/DC adapter of an option.

Dimensions



ULVAC, Inc. Components Division

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