

Compact Process Gas Monitor [Qulee CGM2 Series]

"Qulee" (pronounced as "KLEE"), is ULVAC's latest model for residual gas analysis and gas monitoring during process.

Feedback from facility engineers in various production lines are incorporated in the new product design offering utmost simplicity.

The Qulee offers high accuracy and resolution even at high pressure (1Pa or less).



Features

- ➤Ideal for Sputtering System Ideal for process monitoring of various sputtering sysytem
- ➤ Differential Pumping System not Required No differential pumping system required (at 1Pa (7.5×10⁻³ Torr,1×10⁻² mbar) or lower)
- ➤ 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
 Traceability of analysis tube (patent pending)

- ➤ Various Leak Tests are Available Helium leak test, air leak test, built-up test
- ➤ Total Pressure Measurement Capable of total pressure measurement
- ➤ Qulee QCS is Included
 This software is included and compatible with
 (Windows 8/10)
- ➤ QIP (Quick Install Package system) is Included Auto measuring package (refer to options catalog for details)
- ➤ Applicable Standard Conforms with CE

Applications

- Process monitoring for PV, FPD, and semiconductor system
- ➤ Residual gas analysis in PVD system
- ▶ Impurities (H₂O, etc.) control in PVD system
- > For leak testing



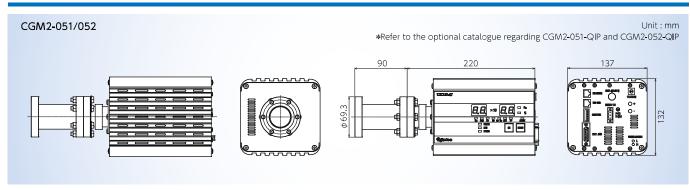


Compact Process Gas Monitor [Qulee CGM2 Series]

Specifications		
Model	CGM2-051	CGM2-052
Mass filter type	Quadrupole	
Mass range	1 to 50 amu	
Resolution	M/△M=1M (10% P.H.)	
Detector type	Faraday cup (FC)	EM Tube (SEM)/Faraday cup (FC)
Sensitivity	10 ⁻⁷ A/Pa	SEM: 10 ⁻⁴ A/Pa
	1.33×10 ⁻⁵ A/Torr	SEM: 1,33×10 ⁻² A/Torr
	10 ⁻⁵ A/mbar	SEM: 10 ⁻² A/mbar
Minimum detectable partial pressure	1×10 ⁻⁷ Pa	SEM: 1×10 ⁻¹⁰ Pa
	7.5×10 ⁻¹⁰ Torr	SEM: 7,5×10 ⁻¹³ Torr
	1×10 ⁻⁹ mbar	SEM: 1×10 ⁻¹² mbar
Maximum operating pressure	FC: 2 Pa	FC: 2. SEM: 1×10 ⁻² Pa
	FC: 1.5×10 ⁻² Torr	FC: 1.5×10 ⁻² . SEM: 7.5×10 ⁻⁵ Torr
	FC: 2×10 ⁻² mbar	FC: 2×10 ⁻² . SEM: 1×10 ⁻⁴ mbar
Linearity	1Pa	1 C. 2 × 10 , 3E/VI. 1 × 10 1110a1
	7.5×10 ⁻³ Torr	
	1×10 ⁻² mbar	
Filament	Ir/Y ₂ O ₃	
Ionizing voltage	40eV	
Emission current	0.1mA/0.4mA	
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	
Weight (Sensor unit/sensor)	2.1kg/0.44kg 2.2kg/0.44kg	
Maximum sensor operating temperature	120°C (248°F)	
Maximum bakeout temperature (electronics removed)	250℃ (482°F)	
Operating temperature range	10 to 40℃ (50 to 104°F)	
Operating humidity range	15 to 80% (not condensing)	
IP rating	IP30 (sensor unit)	
Power connector	MSTB2.5/3-STF-5.08	
Communication interface	RS232C/RS485 (with option)	
External input/output connector	D-sub15-pin (M2.6 screw)	
Communication connector	RJ-45	
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.4.0 later (Windows 8/10)	
Standard accessories	Power connector, Communication cable (3m long), Software (install CD), Instruction manual (clean paper)	
Optional accessories (Cf. Qulee optional catalogue)	QIP (Auto-measuring package spec.), Communication cable (5m,10m,15m long), AC power adapter, USB-LAN adapter, Switching hub(8 ports or 16 ports), Input / output connector, Jacket heater, Carry case	
Applicable standard	CE	

^{*} When there is no RS232C port in PC, please purchase USB/RS232C micro converter of option.
* Please prepare an AC/DC power supply or please purchase the AC/DC adaptor of an option.

Dimensions



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