

MASS FLOW CONTROLLER GF-100-120-125

GF101

Thermal Mass Flow Controller GF101

- For all gases up to 10bar
- Metal sealed
- Service port aids device installation, monitoring and troubleshooting



PRODUCT DESCRIPTION

Brooks GF-100 series offer high purity flow path, outstanding performance, reliability, and repeatability.

Fast responding, repeatable delivery of process gases with high and ultra-high levels of purity—that's the performance the GF100 series of metal sealed mass flow controllers and meters provides. Designed for semiconductor, MOCVD and other gas flow control applications, the GF100 series exceeds the semiconductor industry standard for reliability, ensuring repeatable, highly stable performance over time. Standard MultiFlo™ technology enables one MFC to support thousands of gas types and range combinations without removing it from the gas line or compromising on accuracy.

Features:

- Long-term zero stability of $\leq \pm 0.5\%$ full scale per year
- Settling times: 700 ms - <1 second
- Full-scale flow rates up to 300 slpm
- All-metal seal flow path: option for 4 μ or 10 μ inch Ra surface finish
- Corrosion-resistant Hastelloy® T-Rise sensor improves measurement reproducibility at elevated temperatures
- MultiFlo™ gas and range programmability—one device, thousands of gas types and range combinations without removing the MFC from the gas line or compromising accuracy
- Local display
- Optional SDS gas delivery
- DeviceNet™, RS-485 L-Protocol and analog interfaces

SPECIFICATIONS

Burst Pressure	206 bar
Control range	5-100% (Normally Closed Valve)
Data	RS485, DeviceNet
Diagnostics / Service Port	RS-485 via 2.5mm jack
Differential Pressure	30-90 psid

External Leakage	1x10 ⁻¹⁰ atm. cc/sec He
Lowest flow	55 l/min
Materials Wetted Parts	Hastelloy, Stainless steel 304, Stainless steel 316
Normally Closed Valve Closes	< 2%F.S
Normally Open Valve Closes	N/A
Op.	10 bar
Pressure Range Max	55 bar
Response time	<1 s
Surface Finish	10 µm Ra
Temperature range from	10 °C
Temperature range of media from	10 °C
Temperature range of media to	50 °C
Temperature range to	50 °C
Valve type	NC