

## CRITERION

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### DIGITAL MASS FLOW MODULE

# D500



The latest cutting-edge PI-MFC : CRITERION D500  
High stability Mass Flow Module- Gas flow control is unaffected by upstream and downstream pressure fluctuations  
Differential Pressure Detection, PI Mass Flow Module



Launch of the CRITERION D500! The new smart model for supporting cutting-edge processes.

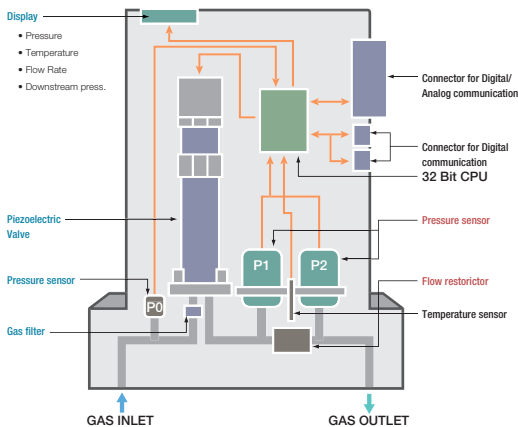
**New functions and high performance in one unit**

- NEW** **Pressure Insensitive** **Pressure Insensitive Performance**  
A new high-performance Pressure Insensitive function provides for simplified gas supply systems
- NEW** **Multi Gas Multi Range Multi Pressure** **Multi-range, multi-gas, multi-pressure solution**  
The new functions allow the user to change gas type, Full-scale flow rate, and supply pressure range
- NEW** **G-LIFE** **G-LIFE Self-Diagnosis Function (Gas Law check of Integrated Flow restrictor Equation)**  
The advanced G-Life function allows operators to conduct their own tests, typically in three seconds or less for improved throughput
- NEW** **High Accuracy** **High Accuracy**  
Flow rate accuracy for process gas has been improved with an advanced three-dimensional adjustment
- NEW** **High Speed Response** **Fast Response**  
Response: < 0.8 second  
Accurate, stable flow control has been realized
- NEW** **Wide Range** **Dynamic Range**  
Wide control range: 0.2% F.S. to 100% F.S.



**RoHS COMPLIANT** Applying to the EU RoHS Directive : This products is compliant with the restriction of the designated 6 hazardous substances(\*).  
 (\* ) lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE)  
 Using lead-free soldering : Lead-free soldering is used for mounting components of printed circuit boards.  
 - Many countries consider the reinforcement of regulations concerning the risk caused by lead to human body and the environment

**Internal structure**



**Specification**

Model	D500		
Gas	Configurable		
Outlet Pressure	≤ 53.3kPa(A)		
Settling Time	0.8 second		
Inlet Pressure	H : 350–750kPa(A)	M : 240–350kPa(A)	L : 110–240kPa(A)
Flow Rate Line Up	100SCCM–10SLM	50SCCM–5SLM	10SCCM–1000SCCM
Control Range for outlet pressure ≤ 13.3kPa(A)	0.2–100%	0.5–100%	2–100%
Accuracy for outlet pressure ≤ 13.3kPa(A)	±1%S.P.(5–100%F.S.) ±0.05%F.S.(0.2–5%F.S.)	±1%S.P.(10–100%F.S.) ±0.1%F.S.(0.5–10%F.S.)	±1%S.P.(50–100%F.S.) ±0.5%F.S.(2–50%F.S.)

· The condition might be changed by upstream and downstream pressure.  
 Please contact us more information.  
 \*TSCCM and SLM are notations indicating the gas flow rate (mL/min, L/min, at 0°C and 101.3 kPa)

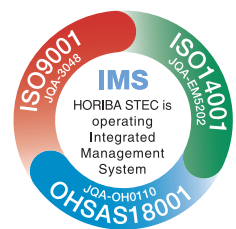
**⚠ Please read the operation manual before using this product to ensure safe and proper handling of the product.**

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