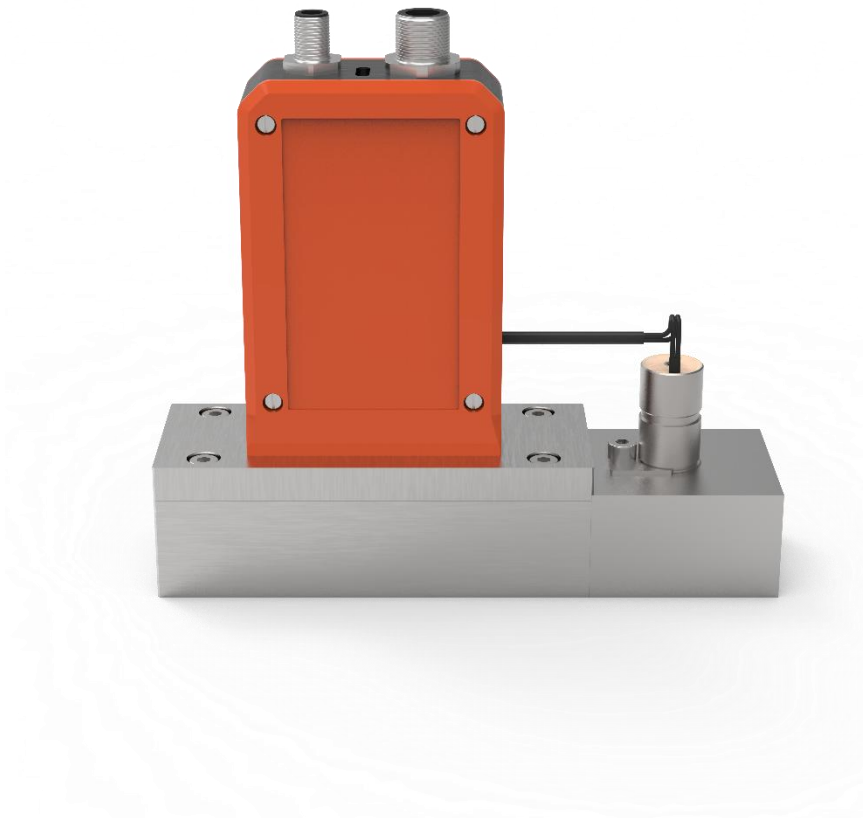
Trigas DM

Durchflussmesser-Manufaktur



AETOS MFC STANDARD

Mass Flow Controller for GASES

With Multigas Function

Datasheet

2026-11-12 EN

TrigasDM GmbH • Erdinger Str. 2b • D-85375 Neufahrn • www.trigasdm.com

Technical specifications for the AETOS MFC STANDARD Mass Flow Controller
Flow ranges from 200 SCCM to 100 SLPM
Standard version. We will be happy to advise you on available options.

Sensor Performance

Mass flow accuracy:	Standard accuracy: ±0.6% of reading or ±0.1% of full scale (whichever is greater)
Mass flow repeatability:	± (0.1% v.MW + 0.02% v. EW)
Pressure accuracy:	Above 1 atm: ±0.5% of reading Below 1 atm: ±0.07 PSIA
Steady-state control range:	0.05 - 100% v. EW (2000:1 turndown), valve-dependent
Operating pressure range:	10 bar (145 PSIA)
Pressure sensitivity:	Mass flow zero shift: ± 0.01% of full scale per atm from tare pressure Mass flow span shift: ± 0.1% of reading per atm from calibration conditions
Temperature sensitivity:	Mass flow zero shift: ± 0.01% of full scale per °C from tare temperature Mass flow span shift: ± 0.01% of reading per °C from 25°C
Temperature accuracy:	±0.9°C
Operating temperature range:	0 to +50°C (ambient and gas)
Totalizer volume uncertainty:	± 0.1% of reading in additional uncertainty
Controller response time:	10 ms, adjustable
Sensor response time:	<8 ms
Typical warm-up time:	<1 s

Mechanical Specifications

Wetted materials:	301, 303, 430F, 316L, Silicone, RTV, Gold, Ceramic, Epoxy Resin, Nylon, Aluminum, LCP, Pyrex, PTFE, FKM
Maximum pressure:	Possible damage above 18 bar (230 PSIA) common-mode pressure Possible damage due to pressure spikes above 1 bar (14 PSIA) differential pressure
Relative humidity range:	0 - 95%, non-condensing
Ingress protection:	IP40 (contact us for higher protection ratings)
Mounting orientation:	Any / bidirectional
Mounting holes:	G1/8 | G1/4
Process connection:	200 SCCM- 20 SLPM: G1/8 female thread 50 - 100 SLPM: G1/4 female thread

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Gas Functions

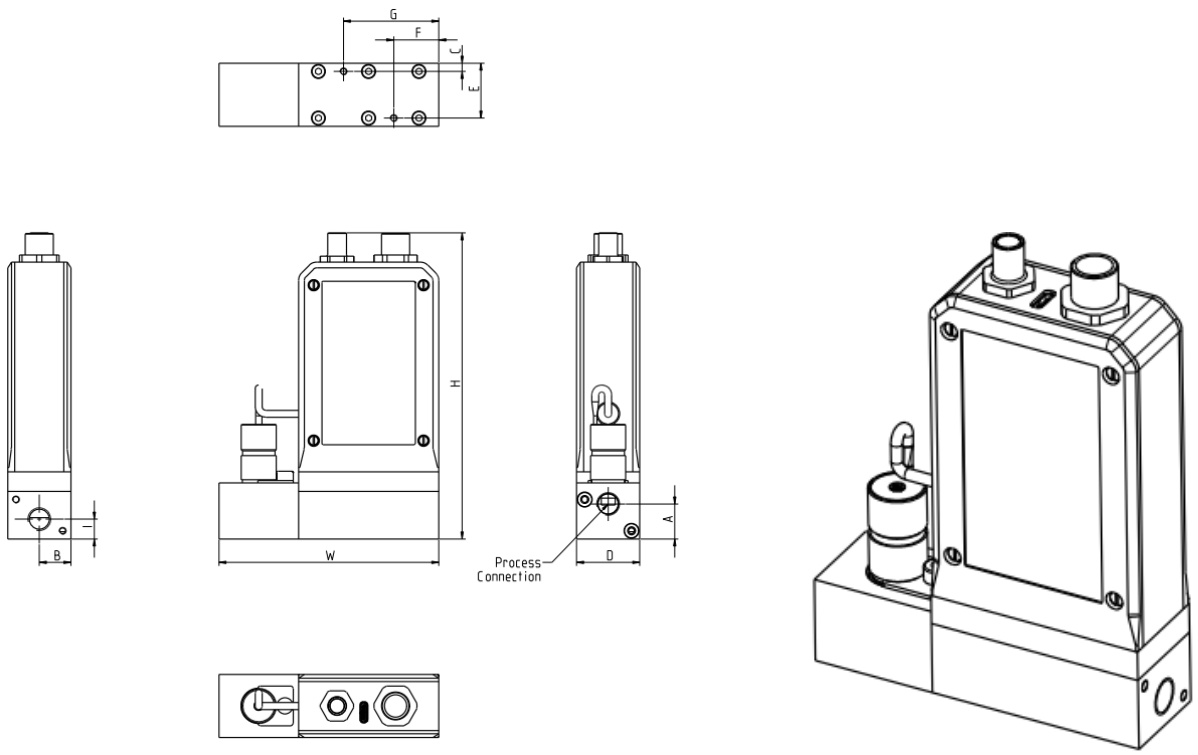
STP reference conditions:	25°C, 1.01325 bar(a)
NTP reference conditions:	0°C, 1.01325 bar(a)
Gas selection:	Large selection of stored gases; selection based on gas curves from NIST REFPROP 10 for temperature and pressure compensation to achieve maximum accuracy when switching gases - without real-gas calibration
GASMIX:	upon request

Power Supply and Communication

Digital input and output options:	RS-485 serial and Modbus RTU (standard)
Interface (service):	USB-C (for PC-software / configuration)
Digital data update rate:	40 Hz at 19,200 baud
Analog input and output optional:	4–20 mA, 0–5 V, 0–10 V, 1–5 V
Analog data update rate:	80 kHz
Analog signal accuracy:	±0.1% of full-scale additional uncertainty
Electrical connection:	4-pin M8, USB-C
Power connection:	12 - 24 VDC, USB-C-cable, 4-pin M12

Technical specifications for the AETOS MFC STANDARD Mass Flow Controller
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Dimension and Weight



Dimension										
Full-scale flow	**Width**	**Depth**	**Height**	**A**	**B**	**C**	**E**	**F**	**G**	**Weight**
200 SCCM - 2 SLPM	3.70“	1.06“	5.16“	0.35“	0.53“	0.14“	0.93“	0.76“	1.60“	≈ 1.1 lb
	94 mm	27 mm	131.1 mm	8.5 mm	13.5 mm	3.5 mm	23.5 mm	19.25 mm	40.75 mm	≈ 0.5 kg
5 SLPM - 20 SLPM	3.94“	1.65“	5.34“	0.50“	0.83“	0.24“	1.42“	0.71“	3.35“	1.76 lb
	100 mm	27 mm	131.1 mm	8.5 mm	13.5 mm	3.5 mm	23.5 mm	19.2 mm	40.75 mm	≈ 0.8 kg
50 SLPM - 100 SLPM	5.83“	1.65“	5.34“	0.50“	0.83“	0.24“	1.42“	0.71“	3.35“	3.31 lb
	148 mm	42 mm	135.7 mm	12.7 mm	21 mm	6 mm	36 mm	18 mm	85 mm	≈ 1.5 kg