AETOS

AETOS Sets New Benchmarks for Speed, Accuracy, and Flexibility

Designed for those who don't just measure processes, but take control of them.



AETOS – Mass Flow Meters and Controllers for Multi-Gas Applications

AETOS stands out for its precision and fast response, whether used as a **mass flow meter** or as a mass flow controller with integrated valves.

Based on the laminar-flow principle and differential-pressure measurement, AETOS delivers results faster than thermal technologies and adapts instantly to changing process conditions thanks to **rapid temperature compensation** - without delay.

Applications – AETOS in Action

Whether used for **nitrogen atomization for paint application**, precise burner control in **fiber-optic production**, or **leak monitoring** in gas networks, AETOS reliably handles demanding flow measurement and control tasks.



Wide measuring range. Maximum flexibility. Real-time data.

AETOS offers an impressive turndown ratio of 2000:1 - delivering accurate measurements from extremely low to high flow rates.
With a **large selection of configurable gases**, you stay flexible at all times without the need for recalibration. Thanks to versatile interfaces such as analog and USB, AETOS provides real-time values not only for flow, but also for temperature, pressure, density, and viscosity.

Made in Germany. Made in Europe.

Development and production in Neufahrn near Munich, Germany ensure excellent support and short lead times for our customers across Europe.

TrigasDM GmbH • Erdinger Str. 2b • D-85375 Neufahrn • Tel.: +49 8165 9999 300 • E-Mail: info@trigasdm.com • www.trigasdm.com

AETOS – Mass Flow Meter for the Highest Demands

AETOS sets new benchmarks for speed, accuracy, and flexibility for those who don't just measure processes, but take control of them.

Key Benefits at a Glance

✓ Ready to use instantly – no warm-up time

While thermal MFCs require 5–30 minutes to warm up, AETOS delivers precise, stable measurements immediately after power-up - no waiting required.

✓ Maximum dynamics – millisecond response times

Ideal for fast control loops and dynamic process sequences: AETOS responds extremely quickly and provides real-time values without delay.

✓ Accurate in any mounting orientation

AETOS measures reliably and accurately in any installation position—mount it the way that best fits your setup.

✓ Stable readings under changing conditions

Fast pressure and temperature compensation keeps values consistent and reliable even when process conditions fluctuate.

✓ Impressive measuring range

With a 2000:1 turndown ratio, AETOS covers wide flow ranges with excellent accuracy - ideal for highly variable flow rates.

✓ Robust, compact, reliable

With no moving parts, AETOS is virtually wear-free and low-maintenance. Its compact design enables easy integration, including OEM applications.

✓ Low pressure drop - ideal for sensitive processes

The system operates with minimal differential pressure and is particularly suitable for applications with low back pressure.

✓ Multi-gas capability – no recalibration required

Switch gases via software instantly and flexibly. AETOS supports a large selection of gases without requiring a separate real-gas calibration for each application.

✓ Easy integration with modern interfaces

Whether digital, analog signals or USB-C, AETOS integrates seamlessly into existing systems via multiple interface options.

Reliable Service and Personal Support from Europe

Personalized technical advice, fast response times, and reliable service—provided directly by our sales team from our service and calibration center near Munich!

Specifications

Flow Ranges (Flow Meter)

200 ml/min to 500 L/min

Flow-Control (Controller)

Valve control for ranges:
20 ml/min to 100 L/min
Controller response time: 10 ms, adjustable

Available Versions (maximum flow):

200 ml · 500 ml
1 L 2 L 5L 10 L 20 L 50 L
100 L 250 L 500 L

Measuring range (turndown): 2000:1

Communication

- Analog outputs
- RS485
- USB digital output (PC connection)

Process Capability

- Rated up to 10 bar
- Low pressure drop
- Compact design for OEM integration

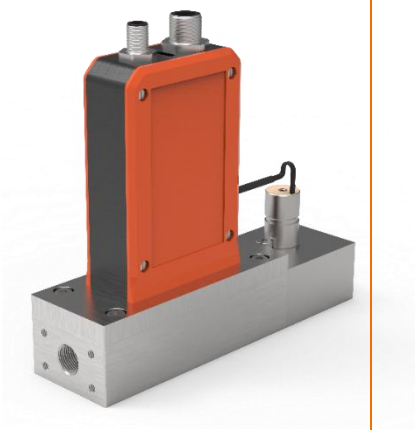
Response Time
<8 ms (MFM)

Warm-up Time
<1 s

Mass Flow Accuracy
±0.6% of reading or ±0.1% of full scale

Mass Flow Repeatability
± (0.1% v.MW + 0.02% v. EW)

Pressure Drop
Refer to the data sheet for more information.



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