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Data Sheet

August 15, 2026

BURKERT

Burkert 8626 Mass Flow Controller for Gases

Burkert 8626 Mass Flow Controller for Gases The Burkert 8626 isothermal mass-flow controller for gases. OEM 8626 literature describes a compact MFC with thermal sensor, proportional solenoid valve, and analog/fieldbus set-point, used for process gas dosing. Typical 8626/8711 family features include standard gas calibrations (N₂, air, O₂, Ar, CO₂ class), analog 4-20 mA or 0-10 V set-point/feedback, and G-thread or NPT process connections. Used in analytical, semiconductor, and laboratory gas panels. The Burkert 8626 isothermal mass-flow controller for gases. OEM 8626 literature describes a compact MFC with thermal sensor, proportional solenoid valve, and analog/fieldbus set-point, used for process gas dosing. Typical 8626/8711 family features include standard gas calibrations (N₂, air, O₂, Ar, CO₂ class), analog 4-20 mA or 0-10 V set-point/feedback, and G-thread or NPT process connections. Used in analytical, semiconductor, and laboratory gas panels. Process and laboratory gas mass-flow control (N₂, air, O₂, Ar, CO₂ class).



MODEL

Burkert 8626

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8626

LISTING

<https://aumictechlabs.com/products/8626-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burkert 8626 Mass Flow Controller (MFC) for Gases is an integrated system designed for precise control of gas mass flow, irrespective of pressure or temperature fluctuations. It incorporates a thermal flow sensor operating on the constant-temperature anemometer principle, a control electronics unit, and a direct-acting proportional valve (Type 2875) for regulation. This

design allows for direct mass flow measurement without requiring corrections, offering excellent dynamics and reduced sensitivity to contamination due to the sensor being in the main flow channel. The MFC can be optionally calibrated for two different gases, enabling user switching between them. Technical Specifications Flow Control: Nominal Flow Ranges (Q_{nom}): 20 to 1500 IN/min (Nitrogen equivalent). Higher flows may be available on request. Turn-down Ratio: 1:50. (Note: With vertical installation and flow downwards, the turn-down ratio is 1:10.) Accuracy: $\pm 1.5\%$ of reading (o.R.) $\pm 0.3\%$ of full scale (F.S.) after 15 minutes warm-up time. Linearity: $\pm 0.25\%$ F.S. Repeatability: $\pm 0.1\%$ F.S. Settling Time: < 500 ms (t_{95%}). (Described as "short settling times" in other sources). Operating Medium: Medium: Neutral, non-contaminated gases. Other gases available on request. Calibration Medium: Operating gas or air with correction factors. Medium Temperature: -10 to +70 °C. (-10 to +60 °C with oxygen). Pressure: Maximum Operating Pressure (Inlet): Up to 10 bar. (Independent of valve orifices for certain configurations). Valve Integration (Type 2875): Valve Type: Type 2875, a direct-acting plunger solenoid valve. Functionality: Proportional control via Pulse Width Modulation (PWM) signal. Offers precise regulation between fully open and closed positions. Integrated shut-off function. Orifice Sizes: 2 to 9.5 mm. Seat Seal: Elastomeric seat seal for tight closure. Plunger Design: Frictionless plunger for excellent proportional control and adjustment characteristic. Pressure Range: 0 to 25 bar. Temperature Range: -10 to +90 °C. Electrical: Operating Voltage: 24 V DC. Voltage Tolerance: $\pm 10\%$. Residual Ripple: < 2%, < 5%. Power Consumption: 20 W – max. 50 W, 12.5 W - 37 W (depending on version), 20 W – max. Electrical Connection: 8-pin round socket. Options may include M16 plug for fieldbus versions. Interfaces/Communication: Analog Signals: Standard analog signals available. Digital Communication (Fieldbus): Optional PROFIBUS-DP, DeviceNet, CANopen available. Physical: Body Material: Aluminum (anodized) or stainless steel. Housing Material: Aluminum (coated). Seal Material: FKM, EPDM (others on request). Port Connections: G 1/4", 3/8", 1/2", 3/4". (Also listed as G 1/4", 3/8", 1/2", 3/4", 1" in other sources). Type of Protection: IP65. Environmental: Ambient Temperature: -10 to +45 °C. (Higher temperatures on request). Compatibility: Combinable Valves: Can be combined with Type 0330 (3/2- or 2/2-way valve), Type 6013 (2/2-way valve), Type 6027 (Direct-acting 2/2-way valve), Type 8619 (Multi-channel program controller), Type 8605 (PWM control electronics), Type 2518 (Cable plug), Type 8611 (eCONTROL – Universal controller). Important Note: According to available information, the Burkert Type 8626 has been discontinued as of July 1, 2024. Why Choose Aumictech for Burkert 8626 Mass Flow Controller for Gases (MFC)? At Aumictech, we specialize in supplying high-end gas flow control equipment. Whether you need precise gas mass flow regulation, reliable performance in demanding environments, or seamless integration with digital communication protocols, our team ensures the Burkert 8626 Mass Flow Controller for Gases (MFC) delivers maximum performance for your application.

8626 Characteristics / Specifications

PARAMETER	VALUE
Model	8626
Instrument Type	Gas mass-flow controller
Sensor	thermal mass-flow
Actuator	proportional solenoid valve
Setpoint Class	4-20 mA or 0-10 V analog
Feedback Class	4-20 mA or 0-10 V analog
Gas Class	N2, air, O2, Ar, CO2 class calibrations
Process Connections	G-thread or NPT class
Family	Burkert 8626 / 8711 MFC
Manufacturer	Burkert
Literature	Burkert 8626 mass-flow controller literature
Form Factor	compact in-line MFC
Application Class	process and laboratory gas dosing
System Role	closed-loop mass-flow control
Use Case	analytical and semiconductor gas panels
Documentation Type	OEM 8626 listing
Media Class	clean gases
Control Class	PID in the MFC electronics
Brand Lineage	Burkert Fluid Control Systems
Year Class	8626 MFC family
Accuracy Class	thermal MFC (see calibration certificate)
Range Class	full-scale in l/min or slpm on the nameplate
Electrical Class	24 V DC class MFC supply
Connector Class	electrical DIN/M12 class plus process ports
Mounting Class	in-line process

8626 Specifications

PARAMETER	VALUE
Burkert 8626 Mass Flow Controller for Gases	Overview
Applications	Process and laboratory gas mass-flow control (N2, air, O2, Ar, CO2 class).
Key Features	Thermal mass-flow controller
Integral proportional valve	Analog 4-20 mA / 0-10 V class
Technical Specifications	Model: 8626

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Burkert 8626 MFC literature (thermal sensor, proportional valve, 4-20 mA/0-10 V class, N₂/air/O₂/Ar/CO₂ calibrations). Full-scale l/min, accuracy percent, and 24 V current are on the 8626 nameplate/certificate; do not invent them.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.