CoM4.Flow-Quattro-M-HP

Technical Datasheet



Short description

Measurement and dosing device with integrated Laminar Flow Elements and electronic pressure control. The **CoM4.Flow-Quattro** is a highly precise flow measurement and control device that combines measurement, control, and dosing in a compact system. Four cascaded Laminar Flow Elements (LFE) are permanently integrated into the device, which automatically switches to the LFE that suits the current flow.

Identification

Product Name	CoM4.Flow-Quattro-M-HP
Controller	CoM4.SYS
Document Status	12.11.2026
Enclosure Size	19" 10 U desktop enclosure without handles

Measured variables and calibrated ranges

MEASURAND	UNIT	MIN	MAX	MAX. DEVIATION
Flow Rate	NmL/min	2	20,000	Accuracy: < 0.2 % rdg. Measurement uncertainty (k=2): < 0.75 % rdg.
Differential Pressure	mbar	1	50	0.025 % rdg., min. 0.5 Pa
Absolute Pressure	bar	0.8	1.2	0.1 % FS
Temperature	°C	0	50	0.1 °C
Humidity	% RH	10	75	2 % RH

Standard conditions for NmL/min: 1,000 mbar, 20 °C, 0 % RH. rdg. = of reading, FS = full scale. The calibrated ranges apply to air; for other gases the value in the calibration certificate applies.

Sensors

SENSOR TYPE	MEASURING RANGE	OVERLOAD
Differential Pressure Sensor	0–50 mbar	4 × max. measuring range
Absolute Pressure Sensor	0–1.2 bar	2 × max. measuring range
PT100 Temperature Sensor	0–50 °C	0.1 °C
HUMTMP Humidity Sensor	0–100 % RH	no immersion in liquids, no condensation

Operating conditions

Supply Pressure	min. 5 bar abs. compressed air 0.1 bar abs. vacuum supply
Inlet Temperature	0–45 °C
Humidity	0–100 % non-condensing
Operating Pressure	0.8–1.2 bar abs.

Ambient conditions

Temperature	0 to +50 °C
Humidity	0–100 % non-condensing
Pressure	atmospheric
Degree of Protection	IP20

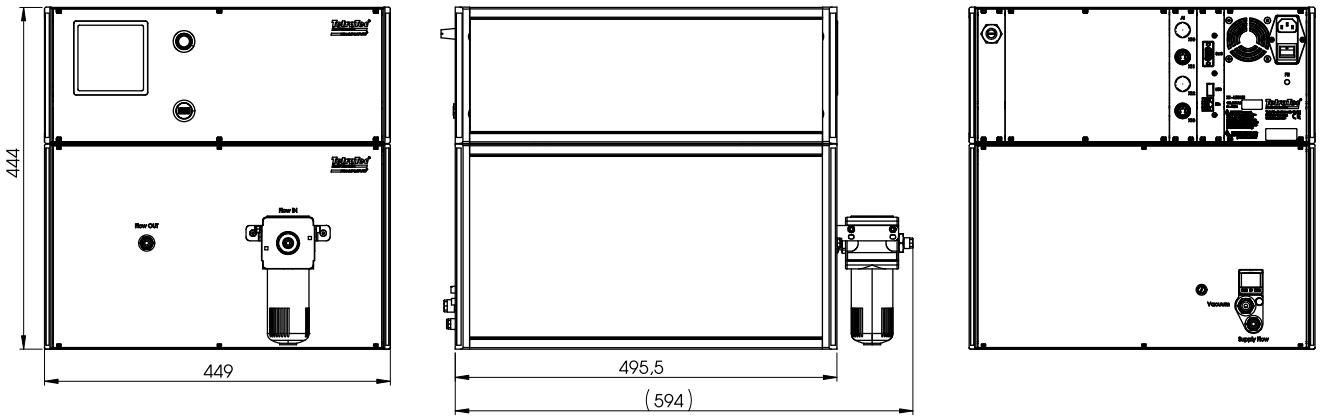
Media compatibility

Permissible Media	Clean, dry, non-condensing, non-flammable, non-corrosive gases
Purity Requirements	ISO 8573-1; 5 µm filter + oil/water separator required

Standards and approvals

Standards	EN 61010-1

Mechanical and electrical data



Dimensions in millimetres. Drawing not to scale; binding dimensions on request.

Enclosure	449 × 444 × 495 (594 incl. filter) mm
Process Connections	Quick-connect fittings with union nut for 6/8 mm hoses
Display	4-inch graphical user interface
Power Supply	90–260 VAC / 50/60 Hz
Power Consumption	max. 80 W
El. Connections	IEC power connector, circular connector (Lumberg)

Interfaces

Communication	Ethernet, USB 2.0 (Type A, for updates)

Options and variants

- Enclosure variants: desktop enclosure or rack enclosure (with or without handles)

Ordering information

The system can be adapted to the requirements of the test task. For design and quotation we need:

- Flow measurement range(s)
- Type(s) of gas
- Test volume
- Operating conditions (pressure and temperature)
- Environmental conditions
- Enclosure requirements
- Power supply
- Data acquisition requirements
- Other specific requirements

FURTHER INFORMATION

Benefits, operating principle and application examples are given in the product brochure **CoM4.Flow-Quattro**. To discuss your measuring task, contact us at **+49 7157 5387-0** or **info@tetratec.de**.