



## CoM4.Gallery

### Technical Datasheet

#### Flow measurement system with critical nozzle gallery

The **CoM4.Gallery** is a highly precise, **aspirating dosing system for generating defined air and gas volume flows** based on critically operated nozzles. The nozzles are **binarily graduated** within the desired flow range and combined into groups of up to **eight nozzles**. This results in **optimally designed flow cross-sections** for each nozzle, ensuring permanently stable **critical operation**.

<b>Product Name</b>	CoM4.Gallery
<b>Controller</b>	CoM4.SYS
<b>Document Status</b>	27.05.2026
<b>Enclosure Size</b>	19" 8 U desktop enclosure without handles

## Measurands and Calibrated Ranges

Measurand	Unit	min.	max	Accuracy
Flow Rate	L/min	0.35	35	Accuracy: < 0.1% rdg. Measurement uncertainty (k=2): < 0.5% rdg.
Absolute Pressure	bar	0.8	1.2	0.01% FS
Temperature	°C	0	50	0.15 °C
Humidity	% RH	0	90	3% RH

## Sensors

Sensor Type	Measuring Range	Overload
Absolute Pressure Sensor 1	0 - 1.2 bar	2 x max. measuring range
PT100 Temperature Sensor	0 - 75 °C	max. 75°C
Humidity Sensor	0 - 100% RH	- no wetting with water
Gauge Pressure Sensor 1	-1 .. +1 bar	2 x max. measuring range

## Operating Conditions

Inlet Pressure	0.8 - 1.2 bar abs.
Inlet Temperature	0 - 45 °C
Humidity	0 - 100% non-condensing

## Ambient Conditions

Temperature	0 to +40 °C
Humidity	0 - 100% non-condensing
Pressure	atmospheric
Protection Rating	IP20

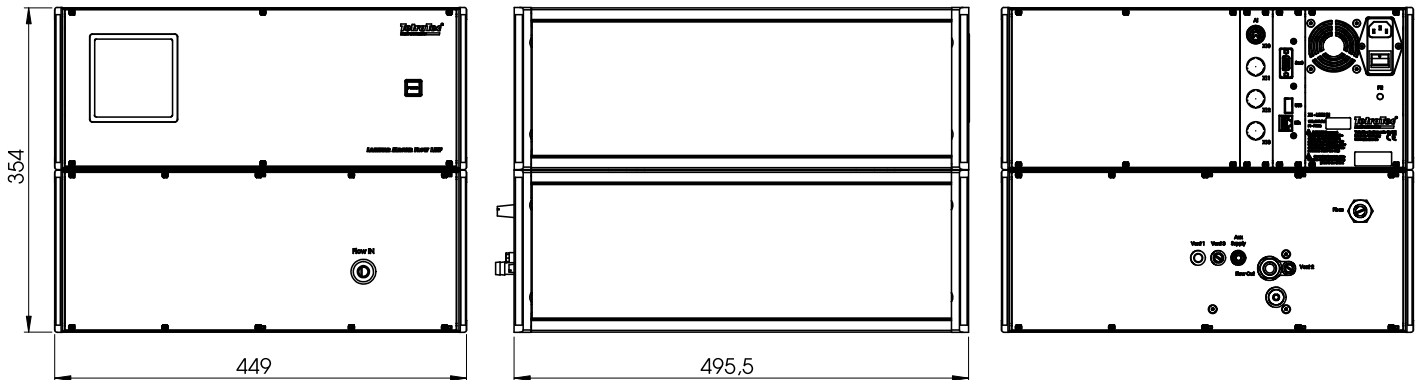
## Media Compatibility

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

## Standards and Approvals

Standards	EN 61010-1
Directives	Machinery Directive 89/392

## Mechanical and Electrical Data



<b>Enclosure</b>	495.5 x 449 x 354 mm
<b>Process Connections</b>	Plastic hoses with 8 mm union nuts
<b>Display</b>	4-inch graphical user interface
<b>Power Supply</b>	90-260 VAC / 50/60 Hz
<b>Power Consumption</b>	max. 80 W
<b>EI. Connections</b>	IEC connector

## Interfaces

<b>Communication</b>	Ethernet, USB 2.0 (Type A - for updates)
----------------------	--

## Options and Variants

- Enclosure variants: desktop enclosure or rack enclosure (if applicable, with handles)
- Extension of 2nd line nozzle gallery to higher / lower flow rates