



## CoM4.Geo

### Technical Datasheet

#### Determination of geometric factors with Laminar Flow Elements

The **CoM4.Geo functional testing system** enables the **highly precise, dynamic determination of geometric properties** at locations that are optically inaccessible. The basis of the measurement method is that the cross-section to be tested forms the **narrowest point of the measurement section** – this is the only way to ensure reliable and reproducible geometric detection.

<b>Product Name</b>	CoM4.Geo
<b>Controller</b>	CoM4.SYS
<b>Document Status</b>	02.06.2026
<b>Enclosure Size</b>	19" 4 U desktop enclosure without handles

## Measurands and Calibrated Ranges

Measurand	Unit	min.	max.	Accuracy
Flow Rate	L/min	1	12	Accuracy: < 0.3% rdg. Measurement uncertainty (k=2): < 1.0% rdg.
Absolute Pressure	bar	0.8	1.2	0.01% FS
Temperature	°C	0	50	0.15 °C
Humidity	% RH	0	90	3% RH
Diameter	mm	0.8	2	Resolution 0.1 µm

## Sensors

Sensor Type	Measuring Range	Overload
Absolute Pressure Sensor	0 - 4 bar	2 x max. measuring range
PT100 Temperature Sensor	0 - 50 °C	0.15 °C
Humidity Sensor	0 - 100% RH	- no wetting with water
Gauge Pressure Sensor 1	0 - 4 bar	2 x max. measuring range

## Operating Conditions

Inlet Pressure	max. 8 bar
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

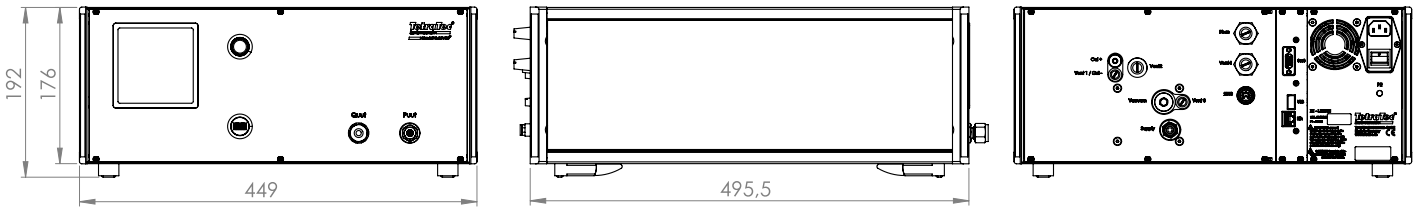
### Media Compatibility

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 192 mm
<b>Process Connections</b>	Plastic hoses with 8 mm union nuts on UUT adaptation
<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
<b>Weight</b>	approx. 12.5 kg

**Interfaces**

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

- Enclosure variants: desktop enclosure or rack enclosure (also with handles)