



## Sample gas probe GAS 222.21 Amex

In many applications gas analysis is the key for safe and efficient control of process flows, environmental protection and quality assurance. In extractive gas analysis the location of the gas sampling point is crucial for the reproducibility and accuracy of the analysis results.

The specific filter capacity, corrosion resistance and functional equipment requirements for the probe arise from the composition of the sample gas.

However, operating costs are also an important criterion in the selection, as the sampling points are frequently located at hard to access points in the system. Effective particle filter backwashing options and low maintenance characterise the extensive GAS probe series.

Heated probe with shut-off valve, upstream and/or downstream filter, weather hood and terminal box

The downstream filter can easily be removed by turning the handle 90°

The probe body and the area around the screw connection for the heated sample gas line are completely isolated

Heater self-regulating to approx. 120 °C (T3)/70 °C (T4)

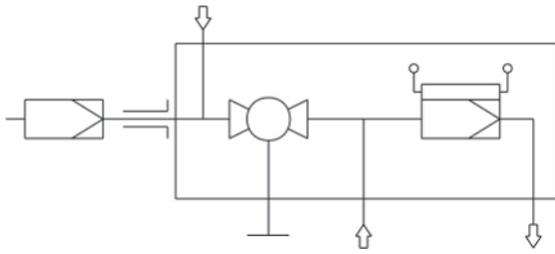
With downstream filter for dust loads up to 2 g/m<sup>3</sup>, with upstream filter and downstream filter for dust loads up to 200 g/m<sup>3</sup> and more

This probe is suitable for use in explosive areas

C-US and CSA approval



Flow diagram



Technical Data

Gas Probe Technical Data

Self-regulating temperature:	120 °C (T3)/70 °C (T4)	
Ambient temperature without accessories:	-20 to +80 °C	
Ambient temperature with accessories:	<b>Component</b>	<b>Ambient temperature range</b>
	Compressed air valve:	-10 °C < T <sub>amb</sub> < +55 °C
	Solenoid valve for pneumatic drive:	-10 °C < T <sub>amb</sub> < +55 °C
	Pneumatic drive:	-20 °C < T <sub>amb</sub> < +80 °C
Low temperature alarm:	Contact open at operating temperature, closes at < 95 °C (T3) resp. < 50 °C (T4); U <sub>max</sub> =30 VDC, I <sub>max</sub> =100 mA, Ci/Li~0	
Electrical data:	115 V-230 V, 50/60 Hz	
Max. operating pressure:	6 bar	
Parts in contact with media:	1.4571, ball valve 1.4408 Seals: PTFE/Graphit/1.4404 and see filter	
Filter:	Upstream and/or downstream filter	
Explosion protection:	Class 1, Div 2, Gps B, C, D, T3 and T4	

**Ordering instructions**

The item number is a code for the configuration of your unit. Please use the following model key:

462221	1	6	6	X	3	X	0	0	X	9	X	X	9	X	Product Characteristics <sup>1)</sup>
															<b>Ex temperature classes</b>
															3 T3
															4 T4
															<b>Sample probe power supply</b>
															3 115 / 230 V
															<b>Calibration gas connection</b>
															0 No calibration gas connection
															1 6 mm
															2 6 mm + check valve
															3 1/4"
															4 1/4" + check valve
															<b>Blowback with air reservoir <sup>2)</sup></b>
															<b>Air reservoir heating</b>
															1 Yes
															9 No
															<b>Compressed air valve/valve voltage information</b>
															0 Manual
															1 120 V 60 Hz
															2 240 V 60 Hz
															9 None (if no blowback requested)
															<b>Pneumatic drive for ball valve</b>
															0 Manual
															1 Monostable pressure-free open
															2 Monostable pressure-free closed
															<b>Control valve for pneumatic drive</b>
															3 3/2-way valve
															9 No control valve

<sup>1)</sup> Please note, using certain accessories may limit gas probe use in Ex areas! Observe the respective operating manuals, accessory compatibility charts, and data sheets to ensure proper technical product design!

<sup>2)</sup> In the case of flammable gases, always use inert gas for blowback. Probe blowback prohibited when using explosive sample gas!

**Options**

The base unit becomes functional by adding accessories suitable for the application. Please refer to accessory data sheet no. 461099 for information.

Please also refer to data sheet no. 461000 "GAS 222 Gas Probes" for a general description.

Dimensions

