

# Sample gas probe GAS 222.21

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, inlet and/or downstream filter and weather hood

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

Electronic temperature controller up to 200 °C with low/high temperature alarm and display

For dust loads up to  $2 g/m^3$ With upstream filter  $10 g/m^3$  and up

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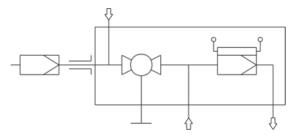
Internet: www.buehler-technologies.com

This probe is not suitable for use in Ex areas



#### GAS 222.2

## Flow chart



### **Technical Data**

#### Gas Probe Technical Data

Probe operating temperature:	max. 200 °C	
Ambient temperature without accessories:	-20 to +80 °C	
Ambient temperature with accessories:	Component	Ambient temperature range
	Compressed air valve:	-10 °C < T <sub>amb</sub> < +55 °C
	Pneumatic drive:	-20 °C < T <sub>amb</sub> < +80 °C
	Limit switch:	-20 °C < T <sub>amb</sub> < +100 °C
	Solenoid valve for pneumatic drive:	-10 °C < T <sub>amb</sub> < +55 °C
Medium temperature (blowback):	Component	Medium temperature range
	Compressed air valve:	-10 °C to +80 °C
	Solenoid valve for pneumatic drive:	-10 °C to +100 °C
Regulator setting range:	+50 to +200 °C	
Low/high temperature alarm:	Alarm adjustable ±530 K from setpo current 1 A	int, factory preset to 15 K, max. switching
Electrical data:	230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz	
IP rating:	IP54	
Max. operating pressure:	6 bar	
Materials in contact with media		
Flange:	Stainless steel 1.4571	
Probe body:	Stainless steel 1.4571	
Ball valve:	Stainless steel 1.4408/1.4462/PTFE	
Seal:	Stainless steel 1.4404/graphite/and see	e filter

#### **Ordering Instructions**

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

4622221	0	9	9	0	X	Х	X	X	Х	X	X	X	X	X	Product Characteristics
															Flange / approval
															DIN DN65 PN6
															Power supply sample probe
					1										115 V
					2										230 V
															Calibrating gas connection
						0									No calibrating gas connection
						1									6 mm
						2									6 mm + check valve
						3									1/4"
						4									1/4" + check valve
													Connection heated extension		
							0								No
							1								Yes
															Built-in temperature controller for heated extension 1)
								0							No
								1							Yes
															Blowback with air reservoir 2)
													Air reservoir heating		
									1						Yes
									9						No
															Built-in blowback control 1)
										1					Internal controller
										9					No
													Compressed air valve / valve voltage information		
											0				Manual
											1				115 V
											2				230 V
											3				24 V
											9				None (if no blowback requested)
													Pneumatic drive for ball valve		
												0			Manual
												1			Monostable pressure-free open
												2			Monostable pressure-free closed
												3			Bi-stable
															Limit switch for pneumatic drive
													1		Yes
													9		No
													Ė		Control valve for pneumatic drive
														3	3/2-way valve
															5/2 way valve
															No control valve
						_									viziture controller for heated extension or blowback control

 $<sup>^{1)}</sup>$  The electronics can either be equipped with temperature controller for heated extension or blowback control

#### **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.

<sup>&</sup>lt;sup>2)</sup> For flammable sample gas, always use inert gas for blowback. Probe blowback prohibited when using explosive gases!

#### **Dimensions**

