

Sample gas probe GAS 222.20 Ex1

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. Versions with Atex and IECEx approval

Heated probe with 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

Heater self-regulating to approx. 80 °C

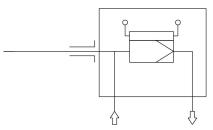
For dust loads up to 2 g/m^3

This probe is suitable for use in explosive areas. Atex: use in zone 1 and 21 and sampling from zone 0 and 20 IECEx: Use in zone 1 and sampling from zone 0



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Flow chart



Technical Data

Gas Probe Technical Data

Ambient temperature:	-40 to +60 °C								
Permissible gas inlet temperatures:	Outer zone temperature class	Permissible gas inlet temperature							
	Τ2	135 °C							
	Т3	135 °C							
	T4	130 °C							
Self-regulating heater:	+80 °C								
Electrical data:	Probe:	External circuit breaker type C:							
	230 V, 100 W, 50/60 Hz	230 V, 2 A, 50/60 Hz							
	115 V, 100 W, 50/60 Hz	115 V, 3 A, 50/60 Hz							
Max. operating pressure:	6 bar								
Max. flow rate:	1000 L/h								
Material:	1.4571								
Parts in contact with media:	Seals: Graphite/1.4404 and see filter								
Probe marking, depending on the selected options and temperature class:	for zone 0/1: ATEX: 🐼 II 1G/2G Ex db ¹ eb mb ² IIC T5/T6T1/T2 Ga/Gb								
F F	IECEx: Ex db ¹ eb mb ² IIC T5/T6T1/T2 Ga/Gb								
	for zone 1:								
	ATEX: 🖾 II 2G Ex db ¹ eb mb ² IIC T6 ⁻ IECEx: Ex db ¹ eb mb ² IIC T6T2 Gb	T2 Gb							
	for zone 0/21:								
	ATEX: 🖾 II 1G/2D								
	$Ex db^1 eb mb^2 llC T5 T1 Ga$								
	Ex tb mb² lllC T80 °C T226 °C Db								
	IECEx: -								
	for zone 20/1:								
	ATEX: 🖾 II 1D/2G								
	Ex ta lllC T120 °C T300 °C Da								
	Ex db ¹ eb mb ² llC T6 T2 Gb IECEx: -								
	for zone 20/21: ATEX. $(x) = 10/20$ Ex to (th mb ² IIIC T	120°C/T80°CT300°C/T226°C Da/Db							
	IECEx: -	120 C/180 C1500 C/1228 C Da/DD							
	for zone 21:								
	ATEX: 🐼 II 2D Ex tb mb² IIIC T80°C IECEx: -	T226°C Db							
	¹ "db" only for GAS 222.21/31 versions	s with limit switch							
	² "mb" only for versions with soleno								
Applied standards:	IEC 60079-0 (Ed. 6.0); IEC 60079-7 (E EN 60079-0:2012+A11:2013; EN 6007								
IECEx certificate number:	IECEx IBE 17.0024X	· · · · · · · · ·							
ATEX certificate number:	IBExU17ATEX1088X								

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Ordering instructions

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

46222201	X	X	X	X	4	X	0	x)	0	0	0	0	Product Cha	aracteristics				
														Flange					
	0	1												Flange DN6	5 PN6				
	0	2												Flange DN3	'-150				
	х	x												Other					
			Hazardous area																
														Outside					
			4											Zone 1 (Atex	/IECEx)				
			7											Zone 21 (Ate	ex)				
			9											none					
														Inside					
				3										Zone 0 (Ate					
				4										Zone 1 (Atex					
				6										Zone 20 (At					
				7										Zone 21 (Ate	ex)				
				9										none					
																•	re class inside/outsi		•
														Ga/Gb	Ga/Db	Da/Gb	Da/Db		
					4									T3/T4	T3/T130°C	T175°C/T4	T175°C/T130°C		
														-	re class inside/outsi				
														Gb/Gb	Gb/Db	Db/Gb	Db/Db		
					4									T4/T4	T4/T130°C	T130°C/T4	T130°C/T130°C		
															ly sample probe				
						1								115 V					
						2								230 V					
														Calibration	gas port				
	0 No																		
		1 6 mm 2 6 mm with check valve																	
								3						1/4"					
								4						1/4" with ch	eck valve				

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.

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