











Sample gas probe GAS 222.35-U 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

Unheated probe with upstream filter

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

For dust loads up to 200 g/m^3 , non-condensable gases

This probe is designed for use in explosive areas. Use in zone 1 and 21 and sampling from zone 0 and 20.



Technical Data

Gas Probe Technical Data

Ambient temperature without accessories:	-40 to +55 °C						
Ambient temperature with accessories:	Component	Ambient temperature range					
	Compressed air valve:	-30 °C < T _{amb} < +55 °C					
	Terminal box:	-20 °C < T _{amb} < +55 °C					
Permissible gas inlet temperatures:	Outer zone temperature class	Permissible gas inlet temperature					
	T2	135 °C					
	T3	135 °C					
	T4	130 °C					
Medium temperature (blowback):	Component	Medium temperature range					
	Compressed air valve:	-10 °C to +80 °C					
Max. operating pressure	6 bar						
Max. flow rate:	1000 L/h						
Material:	1.4571						
Parts in contact with media:	Seals: PTFE/graphite/1.4404 and see filter						
Probe marking, depending on the selected options and temperature class:	for zone 0/1: ATEX: (x) II 1G/2G Ex db¹ eb mb² IIC T4 Ga/Gb IECEx: Ex db¹ eb mb² IIC T4 Ga/Gb						
	for zone 1: ATEX: II 2G Ex db ¹ eb mb ² IIC T4 Gb IECEx: Ex db ¹ eb mb ² IIC T4 Gb						
	for zone 0/21: ATEX: II 1G/2D Ex db¹ eb mb² llC T4 Ga Ex tb mb² llC T130 °C Db IECEx: Ex db¹ eb mb² llC T4 Ga Ex tb mb² llC T130 °C Db						
	for zone 20/1: ATEX: II 1D/2G Ex ta lllC T130 °C Da Ex db¹ eb mb² llC T4 Gb IECEx: Ex ta lllC T130 °C Da Ex db¹ eb mb² llC T4 Gb						
	for zone 20/21: ATEX: (x) II 1D/2D Ex ta/tb mb² IIIC T13 IECEx: Ex ta/tb mb² IIIC T130°C Da/Db						
	for zone 21: ATEX: II 2D Ex tb mb² IIIC T130°C DI IECEx: Ex tb mb² IIIC T130°C Db	b					
	¹ "db" only for GAS 222.11/30 versions with limit switch ² "mb" only for versions with solenoid valve						
Applied standards:	IEC 60079-0 (Ed. 6.0); IEC 60079-7 (Ed EN 60079-0:2012+A11:2013; EN 60079	* * * * * * * * * * * * * * * * * * * *					
IECEx certificate number:	IECEx IBE 17.0024X						
ATEX certificate number:	IBExU17ATEX1088X						

Ordering instructions

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

4622235	X	X	X	Х	X	4	0 0	X	X	x x	(X	ΧI	Product Charac	teristics				
												-	Terminal box					
	0											1	No					
	1											1	⁄es					
													lange					
		0	1									F	lange DN65 PN	N6				
		0) 2 Flange DN3"-150									F	0					
		х	Х									(Other					
												ı	Hazardous area	a.				
												(Outside					
				4								2	Zone 1 (Atex/IE0	CEx)				
				7								2	Zone 21 (Atex/II	ECEx)				
				9								1	none					
												ı	nside					
					3							2	Zone 0 (Atex/IE	CEx)				
					4							2	Zone 1 (Atex/IE0					
					6							2	Zone 20 (Atex/I	ECEx)				
					7							2	Zone 21 (Atex/II	ECEx)				
					9							1	none					
															Temperature cl	ass (inside/outside	e)	
												(Ga/Gb or Gb/G	b Ga/Db or Gb/Db	Da/Gb or Db/Gb	Da/Db or Db/Db		
						4							Г4/Т4	T4/T130 °C	T130 °C/T4	T130 °C/T130 °C		
												(Calibration gas	port				
								0				1	No					
								1				6	5 mm					
								2				6	5 mm with che	ck valve				
								3				1	/4"					
										4				1	/4" with check	valve		
													ressure vessel	*				
									0			1	No					
									1			•	/es					
													Purge valve *					
											0		E	Ball valve				
										1		9	Solenoid valve 1	110 V (marked with	"mb")			
										2		Solenoid valve 230 V (marked with "mb")						
										3		9	Solenoid valve 2	24 V (marked with	"mb")			
										9		1	none					

 $^{^{}st}$ Blowback of explosive atmosphere prohibited.

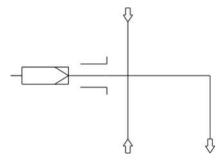
GAS 222.35-U Ex1

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.

Flow chart



Dimensions

