



Gas Analysis





Sample gas probe GAS 222.11 Ex2

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 shut-off valve and/or upstream filter

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

For dust loads up to 2 g/m 3 , non-condensable gases. Combined with upstream filter up to 10 g/m 3 and higher

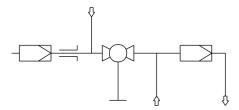
The probe is permitted for use in explosive areas



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GAS 222.11 Ex2

Flow chart



Technical Data

Gas Probe Technical Data

Ambient temperature without accessories:	-20 to +80 °C					
Ambient temperature for accessories:	Component	Ambient temperature range				
	Valve for pressurized air:	-30 °C < T _{amb} < +55 °C				
	Solenoid valve for pneumatic actuator:	-10 °C < T _{amb} < +55 °C				
	Pneumatic actuator:	-20 °C < T _{amb} < +80 °C				
	Limit switch:	-25 °C < T _{amb} < +60 °C				
	Junction box:	$-20 ^{\circ}\text{C} < T_{amb} < +70 ^{\circ}\text{C}$				
Max. gas inlet temperature:	+195 °C (T3)/+130 °C (T4)					
Medium temperature (blowback):	Component	Medium temperature range				
	Valve for pressurized air:	-10 °C to +80 °C				
	Solenoid valve for pneumatic actuator:	-10 °C to +100 °C				
Max. operating pressure	6 bar					
Material:	1.4571; ball valve 1.4408					
Parts in contact with media:	Seals: Graphite/1.4404					
	and see filter					
Markings:	ATEX: 🖾 II 3G Ex ec mb IIC T3/T4 Gc					
	IECEx: Ex ec mb IIC T3/T4 Gc					

Ordering instructions

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

												Junction box
0												No
1												Yes
												Flange
	0	1										Flange DN65 PN6
	0	2										Flange DN3"-150
												Hazardous area Outside and Inside
			2	9								Ex-Zone 2 outside, none inside
			2	2								Ex-Zone 2 outside and inside
												Temperature class
					3							T3
					4							T4
												Power supply sample probe
						0						none
												Calibration gas port
							0					No
							1					6 mm
							2					6 mm with check valve
							3					1/4"
							4					1/4" with check valve
												Capacitive vessel *
								0				No
								1				Yes
												Valve for pressurized air *
									0			Ball valve
									1			Solenoid valve 110 V (marked with "mb")
									2			Solenoid valve 230 V (marked with "mb")
									3			Solenoid valve 24 V (marked with "mb")
									9			none
												Pneumatic actuator for internal ball valve
									()		No
									1			Mono stable depressurized open
									2			Mono stable depressurized closed
									F			Limit switch for pneumatic actuator
										0		No Production de la constant de la c
										1		Yes
										Ė		Solenoid valve for pneumatic actuator
											0	No
												110 V (marked with "mb")
												230 V (marked with "mb")
											3	, , , , , , , , , , , , , , , , , , , ,

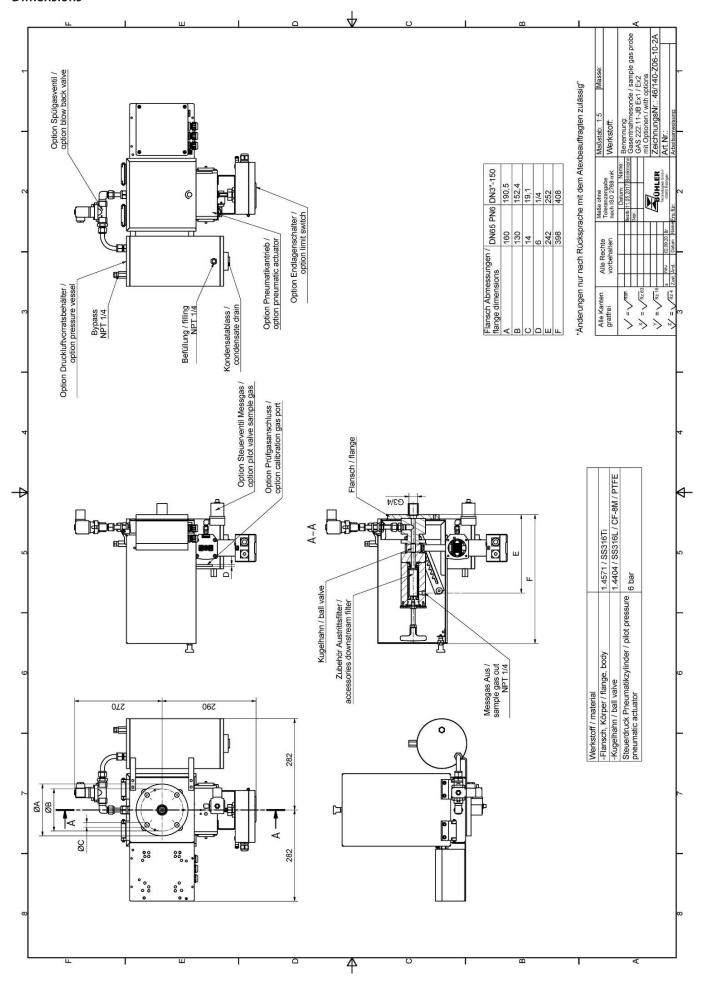
 $^{^{}st}$ Blowback of explosive atmosphere prohibited.

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



4