



Sample gas probe GAS 222.30

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.

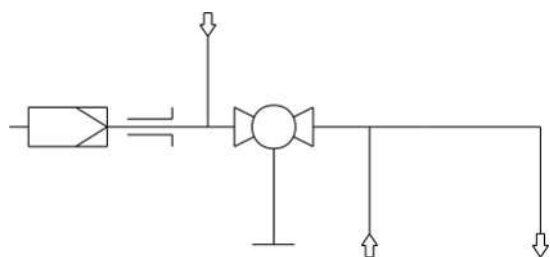
Unheated probe with Shut-off valve and upstream filter

For dust loads up to 200 g/m³, non-condensable gases

The probe is suitable for use in explosive areas



Flow chart



Technical Data

Gas Probe Technical Data

Probe operating temperature:	max. 392 °F	
Ambient temperature without accessories:	-4 to 176 °F	
Ambient temperature with accessories:	Component	Ambient temperature range
	Compressed air valve:	14 °F < T _{amb} < 131 °F
	Pneumatic drive:	-4 °F < T _{amb} < 176 °F
	Limit switch:	-4 °F < T _{amb} < 212 °F
	Solenoid valve for pneumatic drive:	14 °F < T _{amb} < 131 °F
Medium temperature (blowback):	Component	Medium temperature range
	Compressed air valve:	14 °F to 176 °F
	Solenoid valve for pneumatic drive:	14 °F to 212 °F
Max. operating pressure:	85 psia	
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 filter	

Ordering Instructions

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

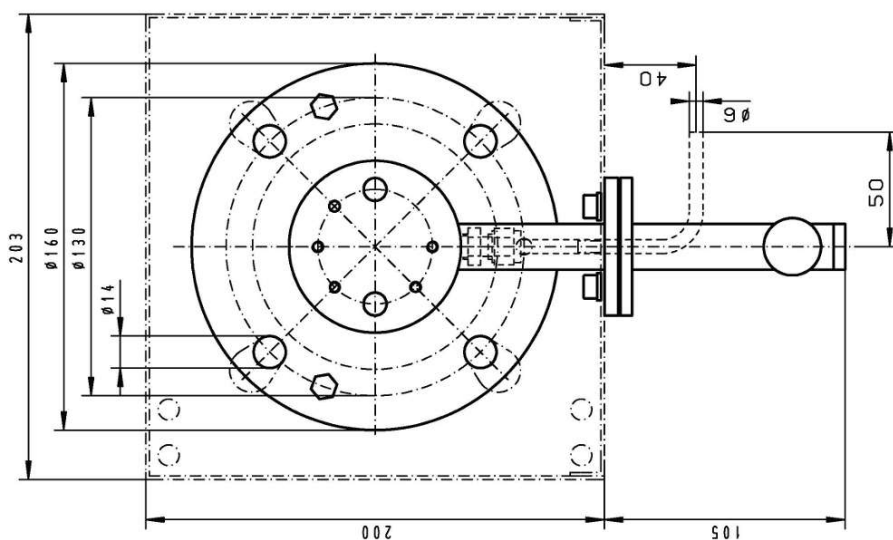
4622230	0	9	9	0	0	X	0	0	X	X	X	X	X	X	Product Characteristics
															Flange / approval
															DIN DN65 PN6
															Power supply sample probe
															none
															Calibrating gas connection
	0														No calibrating gas connection
	1														6 mm
	2														6 mm + check valve
	3														1/4"
	4														1/4" + check valve
															Connection heated extension
															No
															Built-in temperature controller for heated extension
															No
															Blowback with air reservoir ¹⁾
															Air reservoir heating
							1								Yes
							9								No
															Built-in blowback control
							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
															Control valve for pneumatic drive
									3						3/2-way valve
									5						5/2 way valve
									9						No control valve

¹⁾ For flammable sample gas, always use inert gas for blowback. Probe blowback prohibited when using explosive gases!

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.



Option Kalibriergasanschluss/
option calibration gas port

Werkstoffe/materials	1.4571	ALLE RECHTE VORBEHALTEN	Maße ohne Toleranzangabe nach ISO 2768-mK	Maßstab 1:2	(Gewicht)
-Flansch, Körper / flange, body	1.4408 / 1.4462 / PTFE	Überflächenbear- beitungszeichen		Werkstoff:	
-Kugelhahn / ball valve	max. 200°C / 392°F	h ✓ = ✓ x ✓ = ✓ y ✓ = ✓ z ✓ = ✓	Datum Bearb. 23.04.97 Gepr. 28.09.23	Benennung:	
Betriebstemperatur Sonde / operating temperature probe		h x y z	Br-Inne Br-Äuß Br-Flans Br-KH	Gasentnahmesonde sample gas probe GAS 222.30	
Steuerdruck Pneumatikzylinder / pilot pressure pneumatic actuator	6 bar			Zeichn.-Nr. 46/064-01-3H	
				Art.-Nr.	4622230
				ARBEITSANWEISUNG:	
				