

Sample gas probe GAS 222.21 ANSI CSA

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

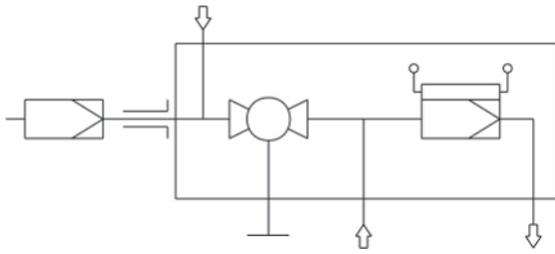
For dust loads up to 2 g/m³. With upstream filters up to 200 g/m³

This probe is not suitable for use in Ex areas

"CSA C & US" approval only when used with 3" 150lbs. ANSI flange



Flow Diagram



Technical Data

Gas Probe Technical Data

Probe operating temperature:	max. 200 °C	
Ambient temperature with accessories:	Component	Ambient temperature range
	Compressed air valve:	-10 °C < T _{amb} < +55 °C
	Pneumatic drive:	-10 °C < T _{amb} < +55 °C
Regulator setting range:	+50 to +200 °C	
Low/high temperature alarm:	Alarm adjustable ±5.....30 K from setpoint, factory preset 15 K Max. switching current 1 A	
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	
Material:	Ball valve 1.4408	
Parts in contact with media:	Flange: 1.4571 Seals: PTFE/Graphit/1.4404 and see filter	

Ordering Instructions

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

4622221	1	9	9	0	X	X	X	X	X	X	X	X	9	X	Product Characteristics
															Flange / approval
															ANSI 3"-150 lbs ¹⁾
															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 ²⁾
				0											No
				1											Yes
															Blowback with air reservoir ³⁾
															Air reservoir heating
				1											Yes
				9											No
															Built-in blowback control ²⁾
				1											Internal controller
				9											No
															Compressed air valve / valve voltage information
				0											Manual
				1											120 V 60 Hz
				2											240 V 60 Hz
				9											None (if no blowback requested)
															Pneumatic drive for ball valve
				0											Manual
				1											Monostable pressure-free open
				2											Monostable pressure-free closed
															Limit switch for pneumatic drive
															No
															Control valve for pneumatic drive
															3 3/2-way valve
															9 No control valve

¹⁾ Probes with ANSI flange are CSA and C-US approved.

²⁾ The electronics can either be equipped with temperature controller for heated extension or blowback control.

³⁾ For flammable sample gas, always use inert gas for blowback. Probe blowback prohibited when using explosive gases!

Please see overview data sheet "Sample Gas Probes GAS 222" DE461000 on page 4 for an application example for the circuitry with add-ons for blowback and calibrating gas 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.

